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Post-processing: Minimum Match +3
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Fred. No. is the number of results predicted by chance to have a score greater them or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Feb. 11

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27 76	Score 65; Pred. No. I: Mismat		XID.		(2001).	pervariabil.		Avidan N., I	158371;				midae; Comus	a; Gastropod	d cone).		Last annota	Last sequer	Created)		₹1:	
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EMBG. AP215106: AAG60527.1; EMBG. AP21510-88: AAG605466.1; EMBG. AP2150-88: AAG60466.1; EMBG. AP2150-89: Conoroxin; 1.
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Fainzilber M.;
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Neodastropoda; Conoldea; Conidae; Conus,
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Plan: PP02950; Comotoxin: 1.
SEQUENCE 76 AA: 8464 MW: 68124AE8FC04A8DF CRC64;
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EMBL. AF193208; AAF07979.1; -.
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NCB1_TaxID=10449:
                                                  Lymantria dispar multicapsid nuclear polyhedrosis vitus (LAMNEV)
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Virus Res. 55:71:82(1998).
EMBL, AFG4526, AAG343721;
SEGUIRCE 5:4AA, 5584 MW. CC4FG4CBB0977079 CRC64;
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EMBL. AF215632; AAV80460.1: .
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Neonastropoda: Concidea: Conidae: Conas.
1938] Gaalb (17992)
                                 Viruses; dsbNA viruses, no kNA stage; kaculoviridae;
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NCB1_laxID=74+20;
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Katik I. Pearson M.N. Harwood S.H. Pank C.J., Evans J.T.,
Slavicek T.M. Rohrmann G.F.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Mochanisms for Evolvina Hypervariability: The Case of Conopertides."; Mol. Biol. Evol. 18:120-131(2001).

EXEL, AC19322; ANTONIA: 1: -
Interpret IFR004214; Conotoxib.
Plant FP02590, Conotoxib.

ECOURAGE 78 AA; 8615 MW; 90411ACEBB7FE3F8 CRC64:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Neogastropoda; Conoidea; Conidae;
NCBI_TaxID=37335;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Continello S.G., Gilad Y., Avidan N., Ben-Asher E., Lovy E.,
                                                                                                                                                                                                                                                                                                                                                        033,408
959,080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fainzilber M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDITAL-21]AEGEG PUBMOD=11158371
                                                                                                                                           Comus textile (Cloth-of-gold come).
Enkarysta: Methron: Molluson: Gastropoda: Caemodastropoda:
Neoquatropoda: Comeidoa: Comidae: Comus.
                                                                                                                                                                                                                                                                0)-HAY 2000 (TrEMBLIG) 13, (ast sequence update) 01-DEC-2001 (TrEMBLIG). 19, Last annotation update)
OBLOTER FROM N.A. BEBARTI (SRRT):
METALOR: 2105969; PubMed-11158RT):
Conticello S.G., Gilad Y., Avidan N., Ben Ashe: E., Lewy Z.,
                                                                                                                                                                                                                                          CONOTOXIN SCAFFOLD VI/VII
                                                                                                                 MUBI_TaxID: 6494;
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Q9UA73
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Best Local Similarity 37.
Matches il; Conscivative
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EMBL, AF19260; AAF07971.1; [...
EMBL, AF19260; AAF07971.1; [...]
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Pfam; PF02950; Conotoxin; 1.
SEQUENCE 78 AA; 8756 MW; D1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conus pennaceus (Feathered cone)
Eukaryota, Motacoa, Mollusca: Gas
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01-MAY-2000 (TrEMBLrel. 13, Created)

01-DEC-2001 (TrEMBLrel. 13, Last sequence update)

01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONCTOXIN SCAFFOLD VI/VII
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EMBL; AF193256: AAF07967.1; -.
InterFig. TFP004214: Constexin
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                                                                                                                                                                                                                                                                                                                                                                                                01-MAY-2000 (TrEMBLrel, 13, Created)
01-MAY-2000 (TrEMBLrel, 13, last sequence update)
01-DEC-2001 (TrEMBLrel, 19, last amogration update)
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Neugastiupuda, Cuficidoa: Conidae: Conus.
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                                                                                                                                                                                                                                                                                                                                        Conus abbreviatus.
                                                                                                                                                                                                                                                                                                                                                                          FOUR LOUP CONCECNIN ABVIR (FEACMENT).
                     "Molecular genetics of exclosical diversification: duplication and rapid evolution of texin genes of the venomous gastroped Conns.": Proc. Natl. Acad. 500. C.S.A. 96:F829-6823(1999).
                                                                                                           MEULINE 99289555, FabMcd-10359796;
Budd T.F. Jr., Palambi S.R.;
                                                                                                                                                                         STRAIN=1;
                                                                                                                                                                                                                                                            NCB1_TaxID-100120;
EMBL; AF090071, AAD48324.1; =.
                                                                                                                                                                                                    SEQUENCE FROM N.A.
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| 9194 MW; | CDDCA6E9F388C944 CRC64;
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    Mismatches

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Rost Local Similarity (47.6%)
Matches (10) Conservative
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01 NoV-1998 (TrEMBLrel. 08, Last sequence update)
01-052-2001 (TrEMBLrel. 19, Last annotation update)
047AIIVE ZINY FINGER CSH4 TYPE.
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01 MAY 2000 (FrEMBirel, 13, Created)
01 MAY 2000 (TrEMBirel, 13, Last sequence update)
01 DE 2001 (TrEMBirel, 19, Last annotation update)
pouk toop comofoxin ARVIM (FRACMENT).
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Eakingeta: Fungi: Ascomyceta: Schilosaccharomycetes:
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                                   Book A., Withhald E., Wood Y., Pajindhodm M.A., Barrell E.J.,
Sadoultied (177 1998) 's the EME (Note of New York Brid)'
' SIMILARITY CHARAINE HENRY PYRE ZIMT FINGER,
EMBC. ALOHIT OF CAA2107 C.L.
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"Molecular genetics of ecological diversification: doplication and
rapid evolution of loxin genes of the commons graticoped decus.";
From Natl. Acad. Sci. U.S.A. 96:6820-6824(1999).
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Enkurgota: Metamai: Mollomai: Santrografa: Amenogastropoda:
Neodastropoda: Conoidea: Cenidae; Conas.
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N-N IFR 1
InterPro: IPROOI841; Znt_fing.
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                                                                                                                                                                                                                                                                                                                                                                      Schirosaccharomycotales; Schirosaccharomycetaceae
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                                                                                                                                                                                                                      SECURENCE FROM M.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
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Pred: No. 0.12;
2; Mismatches 7; Indels
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Best Local Similarity
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Neogastropoda: Conclusa: Conidae: Conus.
Wibi_laxib=89451;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01 JUN 2001 (TrEMBErel, 17, Created)
01-JUN-2001 (TrEMBErel, 17, Last sequence update)
01-DEC-2001 (TrEMBErel, 19, Last annotation update)
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Enkarycta: Ectamaa Milinsea: Gastropoda: Gaemoqastropoda:
Neogastropoda: Comoidea: Comidae: Comus.
MRILTAXID 117922:
                               "Mechanisms for Evolving Hypervariability: the Case of Concepts desmot. Biol. Evol. 18:120-131(2001).
EMBL. AF2150(1) ARCBO489.1:
                                                                                                                                                                             MEDINE 21105969; rathwed 11158471;
Conticello S.G., Gilad Y., Avidan N., BourAshor E., Levy Z.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CONOTOXIN SCAFFOLD VI/VII. Conus arenatus.
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01-JUN-2001 (TrEMBLIGH, 17, Last sequence up
01-BEC-2001 (TrEMBLIGH, 18, Last annotation
CONCTOXIN SEMITOLD VI/VII.
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SMART, 3M00184; ETNG; ].
Zinc-Tinger.
                                                                                                                                                      Fainzilber M.;
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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Ptam: PP0250; Conotoxin. :
SBUURNEE 79 AA: 8870 MW: 9001AF07AF0F04 0km64:
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EMBL. AP215035, AA:60463.1: -.
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Conditrollo 8.60., Gliad Y., Avidab N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MCR1_Tax15
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S. Tihu
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3000 華紀
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$ 913501 (St.26851105 CRC64)
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Sourch completed: September 19, 2002, 09:26:45
Job time: 417 see
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                                                                                                                                            Guery Match 35.28; Score 53.5; DB 10; Length 153; Hest Local Similarity 52.48; Pred. No. 0.83; Matches 11; Conservative 1; Mismatches 4; Indexs 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bost Local Similarity 42.9%; Pred. No. 0.46;
                                                                                                                                                                                                                        STRA(N°CY, NIPPONBARE; Sasaki T., Matsumoto T., Yamamoto K.; "Sasaki T., Matsumoto T., Yamamoto K.; "Olyva sativa nipponbare(GA3) genomic DNA, chromosome 1, PAC elone:p0481E12."; Shim.ited (JAR 2001) to the EMEL/Sechark/DLBJ databases. EMBL: APO03076; BAB56053.1; SEQUENCE 153 AA; 16959 MW; 2EE4874FA78EAEEO CEC64;
                                                                                                                                                                                                                                                                                                                                                                              Oryza Sativa (Rico).
Eukaryota: Viridiplantae: Stroptophyta: Embryophyta: Tracheophyta:
Spermatophyta: Magnoliophyta: Liliopsida: Poales: Poaceae:
Ehrhattoideae: Oryzeae: Oryza.
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U94.110:
U1-DEY-2001 (TrEMBLrel. 19, Created)
U1-DEY-2001 (TrEMBLrel. 19, Last sequence update)
U1-DEY-2001 (TrEMBLrel. 19, Last annotation update)
P0481E12.38 PROTEIN.
P0481E12.38
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                                                                               SEQUENCE FROM N.A.
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                                                                                                                                             5; Gaps
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Fast-processing: Minimum Match 0%
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Listing first 45 summaries Minimum IB seq length: 0 Maximum DB seq length: 2000000000 Database : Total number of hits satisfying chosen parameters. Scoring table: Title: Pertect score: Fun on: oM protoin protein search, using sw model US-09-749 FRZA 271 152 1-XCIXSGUIGERSDHIGGGSGKCAFVCL 27 105224 seqs, 38719550 residues BLOSHM62 Gapop 10.0 , Gapext 0.5 September 19, 2002, 04,27,03 SwissProt\_40:\* Non-pyriana (m) laik – zoso Gampuden Kia. . Search tip 18.15 Seconds (without alignments) 79.259 Million cell updates/sec

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

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                                                                                                                                                                                                                                                                                                                                     Serine protease inhibitor;
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"Amino acid sequence and kinetic properties of a four domain professes
inhibitor from the gorgonian Melithaca caledonica.";
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o: IPR002223: Kunitz BPII.
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G. Mismatches (M. Indels
EPIL/EDRIC INHIBITOR.
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Matchew 11: Conservative
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-1- MASS SEBCIFOMETRY, MW (2007.7: MW_ERF 0.5: MEHROD block respect).
- STOCHARTLY: PERCOPER 7- TOP CHICA TYLL TWO MY EXISTY.
- PROSPERITED OF THE PRODUCT AND ADDRESS TO THE CALCULAR TYLL
- PROSPERITED OF THE STANDARD STANDARD STANDARD AND ADDRESS TOP TOP THE STANDARD STANDA
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J. Neurochem. 67:2155-2163(1996).

-i- FUNCTION. CMECA CONTOXINS ACT AT PRESENTATION NEUROLANDS, HOW BOWNERS.

AND BLOCK THE CALCIUM CHANNELS. ACT ON HIGH VOLTAGE ACTIVATES (HVA) CALCIUM CURRENTE IN MOLLUSCAN NEURONS.
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P56712;
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OLATINSTO
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fo-HAY-2000 (Rel. 30, That organize update)
l6-bCl-2001 (Rel. 40, Last annotation update)
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Eukaryana Metazoa, Maliusea, Gastrapoda, Caedonastropoda.
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                                STANDARD;
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Pred. No. 0.28;
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Best Execute
Markback 15
                                                                                                                                                                                                                                                                                                        MEDITNE=94084252; FubMed B261090;
Blasson A., Fainallion M., Gordan D., Ziotkin E., Spira M.E.:
"Afteration of Sodium currents by new poptide toxins from the
a molluseiverous Couns Smail.";
Fur. J. Neurosei. 5:56-64(1993).
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01-MAR-1992 (Rel. 21, Last sequence update)
15-47-2000 (Rel. 40, Last annotation update)
Delta-conordan layis (Isis)
Comus textile (Cloth-of sold come).
Eakaryota: Betaches Mollys ar distropeda: Caenodastropeda:
Weodastropeda: Comordea, Condan, Canos.
WeyniaxID 6494;
                             Venom: Neurotoxin, Sodium channel inhibitor.
DISULFID 2 1 BY SIMILARITY
DISULFID 9 21 BY SIMILARITY.
DISULFID 16 26 BY SIMILARITY.
EL_TERED 17 12. SCOUNTS STREETED 575-56A9
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01-FEB-1996 (Rel. 3, Last sequence update)
01-MAR-2002 (Rel. 4), Last sequence update)
01-MAR-2002 (Rel. 4), Last annotation update)
Aptostichus ill (Paralytic peptide HI) (PP III).
Aptostichus schlinderi (Hap-door spider).
Enkuryota, Metazaa Arthreyeda (Policevata: Arachnida: Aracheae:
Mygalomorphae; Cyrtancheniidae: Aptostichus.
                                                                                                                                                                                                     DEPOLARIZATION AND STONIANIONS REFLICITIVE FIRING OF NEURONS
-1- SURCELLUIAR LOCATION: Secreted.
PIR: $19619: $19619.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIAN CLICKS; FundMed 1/61068;
Tainwiller M., Gardan E., Hawson A., Spira M.E.,
"Molloss specific toxins from the Venom of Conus
neovicarius.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Skinaer W.S., Dennis P.A., Li J.P., Quistad G.B.; "Identification of the traj-dwar pident prost tolus schlingeri ("Tenizidae)."; Toxicon 30:1043-1050(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE.
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SEQUENCE (7 AA;
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-11 TISSUE SPECIFICITY: Produced by the venomous gland.
-12 FIM: POUR DISHLEIDE HOURS ARE PRESENT. STRETTANDED:
-13 MAINTAINMENT TO APTOTOXIN VII.
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Skinner W.S., Dennis P.A., Li J.P., Quistad G.B.;
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LEPTEMBURNAN LANVAR, IS A SEWER ACTING TOXIN, BEING LEHAL,
HR, ECT HOT PARALITIC AT 1 HR [5:3] INJECTION.
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No. 0.33;
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Best Local:
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Virolosy 2:42:586-605(1994).
-!- SUMCLIMIAR LOVATION: Secreted.
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                               Comp. Blocken. Physiol. 12201287 296 (1999).
-!- FUNCTION: THE METALLOTHIONETHS ARE INVOLVED IN THE CELLULAR
SECONSTRAIL WITE TOXIC METAL LONG.
                                                                                    Barsyte D., White K.N., Lovejoy D.A.; "Cloning and characterization of metallothionein (BWS in the mossed Mytilus edulis L. digestive gland.";
                                                                                                                                        MIDIANE 99200055, Palmed 10190057.
                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                  Mackay E.A.
                                                                                                                                                                                                                                                                                      MBDLINE=94062828; PubMed 8243463;
Mackay B.A., Openholl I., Inchbur
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Mytilus edulis (Blue mussel).
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01-FEB-1994 (Ref. 28, Last sequence update)
16-507-2001 (Ref. 40, Last annotation update)
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J. Virol. 66:6563-6571(1992)
                                                                                                                                                                                                                               "Complete amino acid sequences of five dimeric and four monomeric torms of metallothionelic from the edible massel Mytilus edulis.":
                                                                                                                                                                                                                                                                  Mackay E.A., George I. I., Ind.
Kaeqi J.H.R., Fothergill J.E.
                                                                                                                                                                                                                                                                                                                       SEQUENCE
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NAMES OF TACKERS
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guery Match (5.5)
Host Lead Similarity (6.4)
Matches 12: Conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SPECIES M.edulis:
MESCINE 94052828, PatMod 924-9463,
Mackay E.A., "wernell J., Dumbar B., Davidson I., Hunziket P.E.
Kaeri J.H.R., Fotherdill J.E.:

Kaeri J.H.R., Fotherdill J.E.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 5: 090031:

61-FEB-1994 (Rel. 28, Freated)

61-FEB-1994 (Rel. 28, Last sequence update)

16-971-2091 (Rel. 40, Last annotation update)

Metallothionoin 26-III isoform A (MI-20-IIIA) (MI-1).

Mytifus edulis (Blue mossel), and
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InterPro: IPROFOUS; Metallthion_mollusc
Prim: PFUULUL; metalthio; L.
                                                                                                                                                                                                                                                    Submitted (CTT 1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                   "Complete amino acid sequences of five dimeric and four monomorie torms of metallothionein from the edible mussel Mytilus edulis.";
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Eakaryeta: Metamaa, Milhamaa Eirairia: Eteriamar
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HSSP: P18055; IMRB.
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                                                                                                                                                                                                                                                                                         "Metallothionein genomic DNA of the mussel Mytilus
                                                                                                                                                                                                                                                                                                                                  Ceratio N., Dondero F., Burlando B., Van de Loo J.W.H.F.,
                                                                                                                                                                                                                                                                                                                                                     SPECIES M. dalloprovincialis;
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                                                                                                                                      SUBJULT: HOMODIMEK.
TREETT: N. BY TALMER.
SUMILARITY: BELONGS TO THE METALLOTHIORETH SUPERFAMILY, FAMILY 2.
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Last sequence update)

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Best Local .
                                                                                                                                                                                                                                                                                                         Best Local Similarity
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01-FEB-1994 (Rel. 28, Last sequence update)
16-007-2001 (Rel. 40, Last annotation update)
Metallothiopeis 20-III isoform B (MF-20-IIIB).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMB1: AF199020: AAG28538.1;
PIR: 839422; 839422.
HSSP; P18055; 1MRB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. SUBDUCT: HOW DIMER.
11. INJUCTION: BY CAMMIUM.
1. SIMPLACITY, BELICING TO THE BELIALD STREAMED SUPERFAMILY, FAMILY FIR: 849422; $39422.
HSSP: P18955; IMPR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro: IPR60sJ19: Metallthion.
InterPro: IPR661008. Metallthion_mollusc
Pinm: PP06141 metalthio; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Metal-binding: Metal-Thiolate cluster; Chelation; Cadminm SEQUENCE 71 AA; 6874 MW; 04BFD9FFB08577E7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro: IPRO01098; MetHithion_modluse
Ptam; PF06141; metalthio; ].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Complete amino acid sequences of five dimeric and four monometic forms of acid Lufforch from the cdible amage! Mythin edulis.": Bur. J. Biornem. 218:18:194(1993).

1. PERCITAL THE METALLOTH MEEKS 680 INVALVED IN THE CELLSTARE.
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Kaeqi J.H.R., Fothergill J.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCHI_!ax!D 6550;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bakaryota, Motazoa; Mollusca; Biyalvia; Pteriomorphia; Mytiboida:
Mytiboidea, Mytibidac, Mytibus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mytilus edulis (Blue mussel).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MIZB_MYTED
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDILINE 94042828, PubMod 8243463;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
22 eldysthakskolakastottasikvasta kusisakski 54
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TO THE TRACK NASA STANSON BOARDS AND THE TOTAL STANSON STANSON
                                                                                                                                      PROOB75: MIMOLLUSC
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                                                                                                                                                                                                                                                           36.4%;
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                                                                                                                                                                                                                                                                                                                                                                    35.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1: Mismatches
                                                                                                                                                                                                                                                                                                                     Prod. No. 0.53;
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                                                                                                                                            97 JAMES 3000
                                                                                                                                                                                                                                                                                                                                                                    Score 54; DB 1; Length 71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          114.0
                                                                                                                                                                                                                                                           DB 1; Length 71;
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HSSP: P40394; IAGN.
MED: MC1:87926; Adh3.
InterPro: IPR002328; Adh_zh_lamily
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the European Holintormatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and to common entities respires a license agreement (Sec. 1):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Genomics 41:105-109(1997).

PUNCTION: CHULD PUNCTION IN BETING, OXHDAITON FOR THE SYNTHESIS OF BETTINGTO ACID, A HORMONE INFORMATION OXHDAITON FOR THE SYNTHESIS OF BETTINGTO ACID, A HORMONE INFORMATION OXHDAITON FOR THE SYNTHESIS OF BETTINGTON OXHDAITON OX
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Alcohol dehydrogenase class IV (B) [1.1.1.1] (Retinol dehydrogenase)
(Castric alcohol dehydrogenase) (ADH C2) (Alcohol dehydrogenase ?).
                                                                                                                                                                                                                                                                                                                                                                                                       F# 5211E)
                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           THRMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of Send an email to license disbosib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    this SWISS PROT entry is eqpyriaht. It is produced through a ecliaboration between the Swiss lustifute of Ricintormatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dehydrogenase (retinel dehydrogenase).";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE 97271563: PubMed 9126489:
Zaombie:Knight M., Deltour L., Haselbeck R.J., Foglio M.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
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MEDITHE 95256259; PubMed 7780026;

Zeombie Minight M. And H.L. Podlio M.H., Duester d.;

"Cloning of the mouse class IV alcohol debydrodenase (retirol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W.BI PAXID DOGO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mas masculus (Mouse)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EME.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBJUNIT: HOMODIMER.
SHECKLIJJAR 198ARTON: Cytoplusmic.
LISSUE SPECIFICITY: HIGH EXPRESSION IN THE STOMACH MUC SA. LOWER EXPRESSION IN EYE. THYMUS. SAIN AND OVARY. VERY LOW EXPRESSION IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATALYTIC ACTIVITY: An alcohol + NAD(+) >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONTRACTOR BELIEVES TO THE SIMPOST WIATHING ALCOHOLDENVER STRASE FAMILY, CLASS-IV SURFAMILY.
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U76734; AAC53124.1;
U76728; AAC53124.1;
                                                                                                                                                                                                                                                                                                                                                                                                            PS00059;
                                                  11:555
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ZIN* (CAIALYPEC) (BY SIMILARITY).

ZIN* (SICHAD ALM) (BY SIMILARITY).
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Best Lucal :
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01 New 1990 (Ref. 16, Created);
01-NOV-1990 (Pel. 16, Last sequence update);
16-061-2001 (Ref. 40, Last annotation update);
7-11-1 (adolesis EVVA produce (C+A) (T+A);
7-11-1 (adolesis EVVA produce);
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"Alteration of sodium currents by new peptide toxins from the recome of a molluse by orons corpus snail.";

For J. Neurosci, 5:56-64(1973).

I FUNCTION. HHIBELT ELECTRON SCHOOL HANTIVALON IN NEURONS.

ON MCLISCS WHIBELT ELECTRON SCHOOL HER PREY. THEN HARTEN OF HHIBENS.

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FOSTUME (SE A SIBE KOLNAID LONGIER).
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"Molluse specific toxins from the Zenom of Panus textite
neovicarius.":
                                 InterProc IM884244, Ponotoxin.
Plane IM82450, Standoxin: E
Venne, Moredoxin. Sodium channel inhibitor; Signal;
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"A molluscionrous Corps toxic, or second to prevente in our d-xins.":
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Woodward S., Cruz L.J., Olivera B.M., Hillyard D.K.;
"Constant and hypervariable regions in conotoxin propeptides.":
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Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
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DNA, binding DNA replication; Zinc Linger; Nuclear protein;
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FIR: A44051: A44051.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sodium channels in an individual and the treatment or prevention of disorders associated with voltage gated ion channel disorders.
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hes 26; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98.0%; Score 149; DB 22;
100.0%; Fred. No. 2.9e-10;
tive 0; Mismatches 0;
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                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 97.4%; Score 148; DB 22; Length 20; Best Local Similarity 96.2%; Pred. No. 4e-10;
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Cone smail: o superfamily constoxing sodium channel:
                                                Come shail to superfamily constoxin propeptide, Shriat21
                                                                                                                                                                                                        AAH05967 standard; Poptide: 29 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorder is pain i.e. midraine, acute pain, persistent pain, necropathic pain, necreptive pain. The disorder is inflammation or a cardiocascular disorder. A respective pain populate of is useful to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neuropathies i.e. what here palsy, and carpal tunnel syndrome, cardiogascular disorders. In cardiac architemass and consective heart failure, reactive allosis, hyperglycaemia, immunosuppression, co-aire addiction, career, counties dystunction, neurotransmitter disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disorders associated with moltage gated ion channel disorders including demyelinating diseases i.e. multiple sclerosis, opt
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channel disorders, including despetituting diseases i.e. modifyion
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26.1008-2009; 200008-0213263;
20.1001-2009; 200008-0219440,
27.001.2000; 200008-0243412.
                                                                                                         24 oct 2001
                                                                                                                                                             AAUU5967;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                including demyelinating diseases i.e. multiple sclerosis, optic neuromyelitis, diseaminated encephalomyelitis, advandanced myelitio, progressive multiforal leaken encephalogathy, she acute sclerosing paneroglalomyelitis (SSP), metachramatic leukendystrophy, felicacus Merzbacher disease, spinal cond in arr, leukendystrophy, felicacus Merzbacher disease, spinal cond in arr,
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                                                                                                                                                                                                                                                                                                                                                                   drownings, sufficiation, perinatal asphyxia or hypostycaemic events. The disorder is pain i.e. migraine, acute pain, persistent pain,
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27-cc1-2000; 20009S-0243412;
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) COGNETIX INC.
                    Cartier SE, Watkins M. Hillyard DR, McIntosh JM:
Jones RM:
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                                                                                    Conservative
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causing event, and to treat disorders associated with radical depolarisation of excitable membranes by articular a KATE channel, the disorders include cardiac, coular and cerebral ischaemia and asthmatistical properties.
                                                                                                                                                                                                                                                               (i.e. Baton lambert syndrome) and reversal of curare and other neuromescular blocking drugs. The memological disorder is a solider preferably one associated with epilepsy. The memological disorder is neurologic injury associated with blocker cerebrovascular acceptant perfect.
                                                                                                                   disorder is pain i.e. migraine, acute pain, persistent pain, neuropathic pain, nociceptive pain. The disorder is inflammation or a cardiovascular disorder. A constoxin populae of is useful to
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                                                                                           alleviate pain in a mammal in pain or about to be subjected to a pain
                                                                                                                                                                                                         brain or spinal cord trauma, myocardial infarct, physical trauma, the drawnings, sufficention, perinatal asphyxia or hypodiyoaemic events. The
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addiction, cancer, coanities dystunction, neurotransmitter disorders
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20 - JUL - 2000)
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2m6008-0219440.
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                                                                                     re-re-pathies i.e. afnar nerve palsy, and carpat tunnel syndrome, cardiovascular disorders, i.e. cardiac arrhythmias and condestive heart tribute, reactive allosis, hyperalycaemia, immunosuppression, escaine tribute, reactive allosis, hyperalycaemia, immunosuppression, escaine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (FORM ) UNIV UTAH RES FOUND (FORM ) COMMETTX INC.
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27-071-2000; 200008-024-412.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         demyelinating disease; multiple sclerosis; Huntingdom's disease; neuropathy; carpal tunnel syndrome; cardiovascular disorder; cances; immunosuppression; callepsy;
neurodoxic injury associated with hypoxia, amoxia or is tradic.
                   preterably one associated with epilepsy. The neurological disorder is a
                                    neuromismular blocking drugs
                                                                         addiction, cancer, coamitive dystanction, neurotransmitter disorders
                                                                                                                                               be ulinum toxin poisoning, Huntington's, compression, entrapment
                                                                                                                                                                 sub deute selerosing panecephalomyelitis (SSPE), metachromatic benkonystrophy, Pelizaeus Merzhacher disease, spinal cord injury,
                                                                                                                                                                                                      acute transverse myclitis, progressive multitocal leukeencephalopathy,
                                                                                                                                                                                                                         neuromyelitis, disseminated encephalomyelitis, adrenoleukodystrophy
                                                                                                                                                                                                                                                                                                                                                       Claim 2; Page 71; 277pp; English.
                                                                                                                                                                                                                                                                                                                                                                                              SCIPTOSIS
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                                  Baton Lambert syndrome) and reversal of curare and other
miscular blocking areas. The noureloaleal disease is a se
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Pred. No. 1.9e 09;
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congestive heart failure; cancer; immunosuppression; epilepsy;
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The peptides are useful for regulating the flow of sodium through sodium channels in an individual and the treatment or present in disorders associated with college dated in channel disorders. the sequence is a cone small despectabilly canotoxin properties

including demyedinating diseases i.e.

disseminated enoughs age

aiscelles elpition Sistemater Similarium

Claim 15; Page 71; 277pp; English

sclerosis channel

New a superfamily polypeptions aserul for treating voltage nated isa

disorders, including demyelinating diseases i.e. multiple

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                                 N-120H:
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-2000; 200008-6219140.
2000; 200008-0243412.
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24: Conservative
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0) Mismatches 2;
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(i.e. Date: Landorf syndrome) and reversal of curare and other neuronuscular blocking drugs. The neurological disorder is a solector, preterably one associated with epilepsy. The neurological disorder is neurologic to buy agreemented with typests, animal or behavior about a section, neurologic injury is associated with stroke, cerebrovascular aecident, brain or spinal cord trauma, myorardial inject, physical trauma.
                                                                                                                                                                                                                                                                                                                          disorder is pain i.e. midraine, acute pain, persistent pain, acute pain, persistent pain, no iceptive pain. The disorder is inflammation of a cardiovascular disorder. A conotoxin poptide of is useful to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cardiocasemian disorders, i.e. cardiae arrhythmias and ecanestic bear
tailure, reactive gliosis, hyperarycaemia, immenosuppression, eccribe
addiction, cameer, countive dystunction, neuronamsmitter disorders
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Sequence
                                                                                                                                                          causing event, and to treat disorders associated with radical depolarization of excitable meshcanes by a tipating a XAIP or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        leakodystrophy. Pelizaeras Merzbachen disease, spinal cord injure.
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                                                                                                                disorders include cardiac, ocular and cerebral ischaemia and asthma
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Best Local Similarity
                                                                   domyclinatina disease, medtiple aclerosis; Bantinadon's disease couropathy; carpal tannel syndrome; cardiovascular disorder; condestive heart failure, cancer, immunosappression, epitepsy;
                                                                                                                             Cone smail: O superfamily constoxin; sodium channel; demyellmathmat disease, multiple sclerosis; Huntimado
                                                                                                                                                                                                                 Come small o-superfamily conotoxin, Cr6.5A
                                                                                                                                                                                                                                                                                                                                                                                    AAUU6038 standard; Peptide; 26 AA
Constant circumcisus
                                              asthma, ischaemia, stroke, pain
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Pred. No. 9,20-08;
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Matches 23: Conservative C. Mismarches C. Lado's
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                 noniopathy: carpat tunnel syndrome: cardiozascular disorder:
compositive heart railure; camper: immenosuppression: epllepsy:
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causing event, and to treat disorders associated with radical
depolarisation of excitable numberones by acti ating a KATE changel. I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     botulinum toxin poisonina, Huntington's, compression, entrapment neuropathics i.e. ulmar nerve palsy, and carpal tunnel syndrome, cardiovascular disorders, i.e. cardiac arrhythmias and congestive heart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acute transverse myelitis, progressive myltitocal leakemonophalopathy
sub acute sciencesing panecephatomyelitis (SSEE), metachromatic
lenkedystrophy, Pelizabus Morzhacher disease, spinal cold injury,
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     asthma: ischaemia:
                                                                          demyelinating disease; multiple selecosis; Huntingdon's disease:
                                                                                              Constantity of superfamily constantity sodium channels
                                                                                                                                                                                               24 001 2001
                                                                                                                                                                                                                                                                                              AAHO6036 standard; Peptide; 27 AA
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channel disorders, including demyelinating discusses i.e. mediaple
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stroke: pair
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Query Match
Best Local Similarity
Matches 23: Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nouropathics i.e. ulnar nerve palsy, and carpal tunned syndrome, cardiovascular disorders, i.e. cardiae arrhythmias and concentive bort tallure, reactive divises, hyperdycaemia, immunesuppression, covaring addiction, cameer, countive dystunction, neurotransmitter disorders (i.e. Earon-Lambert syndrome) and reversal of curare and other neuroscopy vilar blocking drugs. The neurological disorder is a science.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        including demyelinating diseases i.e. multiple selecosts, option nouromyelitis, disseminated encephalomyelitis, advanclosk-dystrophy, introductions a myelitia, proposation multiple selectors, option and transfers and the selectors of the selectors.
                                                                                                                                                                                                                                     depolarisation of excitable membranes by activating a KATE charmol. the disorders include cardiac, ocular and exceptal ischaemia and asthmat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sub acute scherosing punccephalomyelitis (SSPE), metachromatic
leakodystrophy, Edizacus Marzhacher disease, spinal cord injury,
holulinum toxin poisening, Huntinuton's, compression, entrapment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence is a cone small 6 superfamily conotoxin peptide. The peptides are useful for regulating the flow of sodium through sodium channels in an individual and the treatment or prevention of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2: Page 89; 277pp; English
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20-JUL-2000; 2000/S-0219440;
27-CCT-2000; 2000/S-0249412;
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                    2 CLXSCDL/FRSDHD)/CSCKCAFVCL 27
disorders, including demyelinating diseases i.e. multiple
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88.5%;
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                                                                        South thousand the S
                                                                                          Score 129; DB 22; Length 27;
Pred, No. 5, Le-98;
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reconstitutions i.e. ulter herzy palsy, and curpat banch syndrome, reconstitution of servers, i.e. cardiac arrhythmias and coegasity bears or cardiacoscolar discrete, i.e. cardiacoscolar arrhythmias and coegasity bears of induced to servers and its orders. The following and reversal of curare and other coefficient blockies syndrome, and reversal of curare and other coefficient blockies drop and reversal of curare and other coefficient blockies. The neurological disorder is a protocolary one associated with epilepsy. The neurological disorder is a monotonic rejary by the first of the protocolar coefficient and a server of the protocolar coefficient and the coefficient of spinal coefficient, and the state of the protocolar coefficient of the protocolar coefficient of the coefficient of the coefficient of the coefficient of the coefficient of a coefficient of the coefficient of a coefficient of the coefficient of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  leokodystrophy, Pelizaens-Merzbacher disease, spinal cord injury, botulinum toxin pelsonio. Huntinaton's, compression, entrapment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neuromyelitis, disseminated encephalomyelitis, adrenolenkodystrophy, acute transverse myelitis, progressive multifocal leakocacephalopathy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disorders associated with voltage gated ion channel disorders, including demyelinating diseases i.e. multiple sclerosis, optic
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                                                          disorders include cardiac, ocular and cerebral ischaemia and asthma
                                                                                 causing event, and to treat disorders associated with radical depolarisation of excitable membranes by activating a KALP channel. The
                                                                                                                                                  alleviate pain in a mammal in pain or about to be subjected to a pain
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Best Local Similarity

884. 88.08.

Scote 129; DB 22; Pred. No. 5.1e-08;

Length 27.

Query Match

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RESHLI 11
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20-JUL-2000;
27 JUL 2000;
                                                                                                                                preferably one associated with epilepsy. The neurological disorder is neurological injury associated with hypoxia, another or ischaemia, the neurologic religion is secondary decident, brain or spinal cord trauma, myocardial interet, physical trauma, by cardial interet, physical trauma.
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drównings, Suttocation, perinātai asphyxia or hypoulycaemic elents. The disorder is pain ile, migraine, acute pain, persistent pain.
                                                                                                                                                                                                                                                                                                                                                                                                         addiction, cancer, cognitive dystanction, neurotransmitter disorders (i.e. Eaton Lambert syndrome) and reversal of curare and other neuromouscular blocking drugs. The neurological disorder is a science
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 botulinum toxin poisonina, Huntington's, compression, entrapment meuropathies i.e. whoar merve palsy, and carpal tunnel syndrome, cardiovascular disorders, i.e. cardiac arthythmias and consessive heart
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          solium channels in an individual and the treatment or prevention of Alisa dets associated with voltage and ion channel disorders, including demyeliant ing diseases i.e. multiple selectors is, optic normageditis, disseminated encephalomyelitis, adrenoleukodystrophy, actic transfers of myelitis, progressive multiples at leukosmosphalogathy, sub-acute selectosing panceephalomyelitis (SSPE), metachromatic leukosmosphalogathy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cone smail: O superfamily conotoxin; sodium channel; demyelinating disease; multiple selerosis; Huntingdom's disease; neuropathy; carpal tunnel syndrome; cardioxascalar disorder; condestive heart tailure; cancer; humunosuppression; epilepsy;
testulinam toxin poisoning. Buntington's, compression,
                                                                                                                             The sequence is a cone small o superfamily conotowin properties. The populates are useful for regulating the flow of sodium through
                                                                                                                                                                              Claim 15; Page 89; 277pp, English.
                                                                                                                                                                                                                 selerosis
                                                                                                                                                                                                                                channel
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Layer RI, .
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                                                                                                                                                                                                                                                                                              2001-418352/44
                                                                                                                                                                                                                                                                                                                                                                                                                                            2000; 2000US-0219440.
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Pred. No. 9.4e-08;
                                                                                                                                                                                                                                                                                                                                              Hillyard DK,
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                                                                                                                                                                                                                                                                                                                                                      30-DEC-1999; 9908-0173754.
26-JUN-2000; 200008-0214264.
26-JUL-2000; 200008-0219440.
27-OCT-2000; 200008-0243412.
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                                                                                                               Layer RI.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cone smail o supertamily conotoxin propoptide, C16.58
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disorders include cardiac, ocular and exceptaal ischaemia and astisa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (i.e. Battarlambert syndrome) bet conersal of curare and other neuromouseular blocking drugs. The neurological disorder is a science preferably one associated with epilepsy. The neurological disorder is a
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N PSDB: AASIIOO8
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                                  2001 418352/44
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                                                                                                                   JOHN'S KM;
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                                                                                                                                                              Stroke: pain.
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                                                                                                                                                          Working Mr. Willyard Dr.
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Production of the
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Sugara

New o supertamily polypeptides useful for treating voltage galed ion claumed disorders, including demyelinating diseases i.e. multiple

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AAUU6034
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cone small: 0-superfamily conotoxin; sodium channel: domyelinating disease; multiple sclerosis; Huntingdon's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAU95034 standard; Poptido; 25 AA
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(UIAH ) UNIV UTAH KEU PRUME
                                                          26 JUN 2009, 200605 0214263.
20-JUL-2000; 200605-0219449.
27-921-2000; 200605-0243412.
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                                                                                                                                                    9908-0173754.
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    Mismatches

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cardiovascular disorder;
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Best Local
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ALL SHEETS

### RESULT 1 US-08-682-485A-4 // Sequence 4/ Application US/U8692485A // Patent No. 5763668 GENERAL INFORMATION: APPLICANT: HOWNIN, MERLIN E.H. APPLICANT: HOWNIN, MERLIN E.H. APPLICANT: HOWNIN, MERLIN E.H. APPLICANT: PURE MASSARET I THE TOTAL VERY METARD J WHIPPE TO THE THE SECOND SECOND SECOND SECOND SECOND METARD SECOND SECOND METARD SECOND SECOND SECOND METARD SECOND SECOND SECOND SECOND SECOND SECOND SECOND SEC COMPUTER PERMARLE PORM: MEDIUM TYPE: Floppy disk CHAPULISK: IBM PC compatible OPERATION OWNERS. Processor busy SOPTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION DATA: APPLICATION DATA: PILLIM GATE: CHASSIPCATION: 424 TELS ATTLEMENT MISS. 537 6 FILLIM DATE: 17-101X-1596 FILLIM DATE: 17-101X-1596 MOLECULE TYPE: ADDRESSEE: Jonera, Inc., STROM STROM STROM CLIFF Followed STAIR: California COUNTRY USA Type: amino acid Topology: linear ACCUSANTAN BUMBER 27-JULY 1994 ACCUSATION BURBER 45-58 94 H 14 protein 9-16---2000/2007/2007 6,7682,485

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APPLICANT: HOWDER, MIRELIN ELH.
APPLICANT: TYLEE, MAKGARET J
APPLICANT: VONARX, ENWARD J
HILLE OF INVENTION: Insecticidal Toxins Derived From
HILLE OF INVENTION. Insecticidal Toxins Derived From
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: Shaw, Mclissa A.
POSTSTRATION NUMBER: 38,
HADOLEHELTOATT NO.
                                                                     33431 37E.3.3.W
                                                                                                                                                                                  SULTENIE OHARACTERISTICS:
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CHY: Richmond
STATE: Californ
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FILING DATE: 27 JULY 1994
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1200 South 47th Street
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1.OCATION: 37

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US-08-93-014-4
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; GENERAL INFORMATION:
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Best Local Similarity 47.8%; Pred. No.
Matches II. Conservative G. Mismat
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Patent No. 5955573
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                                                                                                      IMMEDIALE SOURCE: SYNTHETIC PROPERTY OF THE PR
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RUTHRENCE/O SKET BEMBER: 20,44117A
RELICOMOUNTOFF ON THE SMALL SKE
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CLASSIFICATION: 5.6
ACL FULLWALKER, FARMACI H:
NAME: WALKER, FARMACA W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A-FILL ALL & R MA F TO
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TITLE OF INVENTION. SCANSINGERS OF MAKING AND USING SAME
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CITY: Washington
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Sikeri: 555 Thirteenth Stroot N.W.
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Pred: No. 5.82;
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INFORMATION FOR SEQ. ID MOS. 36
SEQUENCE CHARACTERISTICS:
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POT-US95-093 (H-86)
. Sequence 86. Application in L/H898093 (H
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US-09-440-154-86
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TITLE OF HAVEN LONG CONSTRUCTS, PESTIN AND COINC SAME
NOMBRE OF SECONDOCES: 98
NOMBRE OF SECONDOCES: 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHENE. (202)783-6040
FELEFAX: (202)783-6031
THISIMATION POR SEQ 10 NO: 86:
                                                                                                                                                                                                                                                                                                                                    DESCRIPTION: PEPTIDE HYBOTHER FAMILY NO PERTURE FROM LETE FEBTIDE OR GOINAL SOURCE: SYNTHELIC HAMEDIATE SOURCE: SYNTHELIC
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FILING DATE: 22-JUL-1994
AUTORREX/FAJENT THURSMATION:
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SOFTWARE: WordFortect 5.1+
CURRENT APPLICATION DATA:
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FIELSINGSON NOT REMOVED DE FERNANDE NOT REMOVED DE FERNANDE NOT FERNANDE NOT (202)783 6040
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PRIOR APPLICATION DATA:
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STREET: 555 Thirtcouth Street N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : HdAL
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FILING DAIR: 21-JUL-1995
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88.2%;

Best Local Similarity 45.8%;
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FILING DATE: 22 JUL-1994
(NESEMATION FOR SEQ ED NO: 8
                                                                                                                                                                                  FILING DATE: 22 JUL 19
IRE PMACEN FOR SECTIFICS:
SEQUENCE CHARACTERISTICS:
CENTIH: 36
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APPLICATION NUMBER: 08/279,472
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THILE OF INVENTION: CONSTRUCTS, PROTEIN PRODUCTS DEFIVING THEREFROM, AND
THILE OF INVENTION: METHOUS OF MAKING AND USING THE SAME
POBLICATION INFORMATION:
                 IMMEDIAL SOURCE: SYNTHETIC
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                                                         POTTERN STATEMENT
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NOT PREVIOUSLY TOUGHTSHIP
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US-07 689 694B-6
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Hest Local Similarity 45.8%; Fred. No. 11;
Matches 11; Conservative 1; Mismatches
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THE GHALL HITS YELD ID NOT 6:
CHOCKEN'S CHARACTELISTICS:
LENGTH: 27 ARTHOLOCHES
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MEDIUM TYPE: Diskert.e, 4.5
COMPUTER: Compay LEE/ZB4
OPERATING SYSTEM: 1808 4.01
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NAME, WOSTOTE, M. Magno
RESISTRALION NUMBER: 22
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THE OF INVENTION: for Small Disultide Fieth Peptides
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CITY: Sandy
STATE: Utah
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. Sequence 8. Application 38/addms4x8A

CHNERAL INFORMATION:

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US-08-933-314-8
: Sequence 8. Application US/08933714
: Patent No. 5959182
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FREER APPLICATION INVA-
ACRELINATE H HOMBER, 105/64/642.185
FULING DATE: 17 JULY 199
APPLITATION NUMBER, 105/64/256,943
FULING DATE: 27 JULY 1994
ACRELINATION NUMBER: 1994
PULING DATE: 29-JAN-1993
ACRELINATION NUMBER: AU PEC722
ACRELINATION NUMBER: AU PEC722
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TELEPAX: 510-231 1112
TELEPAX: 810-10 NO: 8:
SECHENCE CHARACTERISTICS:
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COMPOIDE: IBM PC compatible
OPERATING SYSTEM - PC POSCINS PCS
SOFTWARE: Patentlin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
ALPLICATION NUMBER: PS/08/082.465A
FILLING DATE:
CLASSIPETS:
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AFRICANIE TYLER, MARGARIT I
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NUMBER OF SEQUENCES 26.
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REFERENCE/DOCKET HEMBER: 1FE 5079/01
TELECOMMUNICATION INFORMATION:
1ELEPHONE: 510-231-1542
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ATL-KNUY/AGENT INCHMATICK,
NAME: Shaw, Melissa A.
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13.58: Pred. No. 13:
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of biological activity"

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: Sequence 5, Application US/076896938
: Patent No. 5231011
: GENERAL CONT.
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. HEER INPORMATION: /tobe- "this site may be amidated without loss
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INS-08-933-314-8
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FELEPHONE: 510-231-1112
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FELEPAX: 510-231-1
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Best Local Similarity 43.5
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ATTORNEY/ASINT ENFORMATION:
NAME: Shaw, Mollssa A.
REGISTRATION NUMBER: 38-901
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FILLED CATE. 17 JULY-1996
APPLICATION WHIBER US,08,256,933
FILLEN DATE. 27-JULY-1996
FILLEN DATE. 27-JULY-1996
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COMPUTER: IRM PC compatible
OPERATING SYSTEM. PC D68/MS-D08
SCSTWARE. FAICHTH Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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AUTITANI: BADIN, MERKIN E.H.
AFFIJOANI: YANAKA, EDWAKO J
AUTITOANI: YANAKA, EDWAKO J
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MEDIUM TYPE: Floppy
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THILD OF INVENTION. Functive by (Atrax or Hadrony he Spidors)
NUMBER OF SEQUENCES: 26
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APPLICATION NUMBER: A0 PL
TYPE DATE: 31-JAN-1592
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SIREET: 1216 South 47th Street
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Pred. No. 13:
C: Mismatches 8: Indeis
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US 08 624-123-13

: Sequence 13, Application US/08624123

: Patent No. 5739276
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                                                                                                                                                                                                                                                         SENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (801) 566-663 (ELEFAX: (801) 566-0750 (NELEFAX: (801) 566-0750 (NELEFAX: (802) (E.M.). 5.
                                                                                                                                 APPLICANT: Shon, Ki-Joon
APPLICANT: STILLEY, Michaelle M.
APPLICANT: STILLEY, Michaelle M.
LITLE OF INVENTION: Constant hep-ides
NUMBER OF SEMINATES: 14
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LENGTH: 78 amino acids
LYTE: AMINO ACID
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HILLE OF INVENTION: to Small Clearlide Rich Feptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READARLE FORM:
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                                                                                                                TERESTONDENCE ADDRESS:
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CHINIKY:
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                                                                 AbbRESSELL Venable, Bactier, Boward a Civiletti
STRUET: 1201 New York Avenue K.W.
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: Sequence 2. Application HS/08715308
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Rest Local Similarity 42.90; Prod. No. 24;
Matches II: Conservative Z: Mismatches II: Locals
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COMPUTER: IBM PC compatible
OTERALIAN SYSTEM PC-tonSyms-tonS
SOFTWARE: Patentin Release #1.0, Version #1.25
ARCH APPLICATION DATA:
PRILIAN TOATES PRIMERE SECON, 716, 408
FILLIAN TOATES
PRIOR APPLICATION DATA: 98-9
APPLICATION NUMBER: 98-9
APPLICATION NUMBER: 98-9
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PRICE APPLICATION BATA: US 98/419.554
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CAMPSTER: FRM PY comparible
CAMPSTERS SYSTEM. FC 1985/MS 198
SOFTWARE: Patent In Release #1.0, Version #1.40
CUERENT APPLICATION DATA:
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PILING DATE: 27-MAR 1995
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FILING FAIR: 07 001 1994
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STRANDEGNESS: single
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; MOLECULE TYPE: peptide
US-08-716-308-2
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    whest Local Similarity 42. Matrices II: Conservative
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Patent No. 5885569
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INFORMATION FOR SEQ 10 NO: 2:
                                                                                                                                                                                                         SEJUENCE CHARACTERISTICS:
INF SMALL N FOR SEQUID NOT 1600
INF SEPHENE: (362) ROP 1600
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CLASSIFICATION: 424
FREE R APPLICATION HAIA:
AN ECCATION RUMBER. CCLASSOC/00677
FALLING DATE: 27 MAR-1995
FRIOR APPLICATION NUMBER: QB 9405951.5
                                                                                                                          MELSTYLE INPE: peptide
                                                                                                                                                                                                                                                                   NAME: Hohonschutz, Liza D.
REFERENALO-MENTANDER: 1814 GOOGTVOORT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MIDTIM TYPE: Pleyby disk

NMOTER: IBM P'Comparible

PERAITING SYSTEM: PC-DES/MS DES

SETWARE: Patenth Release #1.0, Version #1.25

CHRPENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Windass, John D.
TITLE OF INVENTION: Biological Insect Control Adent
NUMBER OF SEQUENCES: 18
OF-RESPONJENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Hoberschutz, Liza D.
PETIS KALION NUMBER: 38,712
FERENCEZHOKER NUMBER: PD40027X/UST
TELFOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: GB 92
FILING DATE: 25-MAR 1994
ALLORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 78 amino acids
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                                                                                                                                                                                        78 amino acids
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(2.9%) Store 50: 16: 2: Length 78: 42.0%; Fred. No. 24: 4: Hiddle 2: Mismatches 11: Hadds
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; HYPOTHETICAL:
PCT-US96-05262-14
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PCT 0896 05262-14
Job time: 41 sec
               Search completes: September 19, 2011
                                                                                                                                                                                Ouery Match 82.9%; Some 50; DR best local Similarity 42.3%; Fred. No. 24; Matches 31; Communication 2; Mishatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 14. Application PC/FDS9605262 GENERAL INFERMALISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: 202-962-8830
INFORMATION FOR SEQ ID NO: 14:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OFERATINE SYCTEM: PS DOG/MS DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CUBRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08/424,561
FILING DATE: 17-APR-1995
ATTORNEY/ASERT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ANOMESSAB: Venatio, have joil noward a civiletti. LLP SIREET: 1201 New York Avenac. N.W., Snite 1000
                                                                                                                                                                                                                                                                                                                               HARL STORES
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APPLICANT: Hillyard, David R.
HILD OF INVENTION: Conotoxin Poptidos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANI: Shon, Kirjoon
APPLICANI: Grilley, Michello M.
                                                                                                                                                                                                                                                                                                                                                                                                                                    BLOULNCE CHARACHERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-962-4848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FLOPPY .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Yoshikami, D
APPLICANT: Marsh, March
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Saxe, Stephon A.
RECONTRACION NUMBER: 38,609
REFERENCIAMORET RUMBER: 31260-107674
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Post processing: Minimum Match 0%
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Pied. No. is the number of results predicted by chance to have a score dreater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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·	54.5	35.6	5.3	N	072850	polonial disorban
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PrKydia, 1; Borreon, M.M.; Brownst, B.M.; Prik, C.I.; Byans, J.I.; Slavicek, J.M.; R. Wirology 25:, 17-84, 1999
A: Kilile: September and analysis of the geneme of a baculovirus pathemetic for Lymantic Authorized number: 220836; BBID:99124785
A:Accession: 130499
A:Status: proliminary: Translated from GH,0004;2008J A:Molecule type: DNA A:Residues: 1-53 <KUZ.-A:Gross-reterences: EMBE:AFC81810; PHEN:AAC70845.1 condoxin like protein—lymantria dispar nuclear polyhedrosis zirus Cr8pecies: Lymantria dispar nuclear polyhedrosis virus, LdMNPV Cr3udte: 29 oct 1690 #sequenec\_revision 29 oct 1999 #text\_chunae zecotolico C: Accession: 130439

P: Kurio - F. - Penrio 1 3114 99

Ouery Match 38.5%; Rest Local Similarity 44.8%; Matches 18: Conservative 25 CADROARCHREED COSCACRETINECT 51 2 CLASSIDECERSURFACIONSSINCARY -- - - - - 27 5: Mismatches Score 58.5; DB 2; Length 53; Pred. No. 0.83; œ Indets

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comotogin-like protoin l - crayla pseudatsudata nuclear polyhedrosis virus cispoches: crayla pseudatsudata nuclear polyhedrosis virus. cpMH/V Cibarci [6 Jul 1999 #sephenec\_roxistan [6-Jul-1999 #text\_chande il Maj-\_ Civaression: 110465

krAhrens, C.A.: Passell. Ruke: Eak. 7.31: Evenat. J.: Harvord. S.: Edibanc. 3.F. Virlay 229, 881 892, 1992.
Artille: The sequence of the engin pseudofsanita multinutleocapsii toricar polithedra Arketerene number: 717011; MELLEYZIY our Arketession: 119495

Asstatus: preliminary: translated from oxyeMxs./NdBJ

A:Molecule type: DNA A:Residues: 1-53 KAHE: A:Pissa:E:Discoss: BBHELB759:09 BHEGLE9496; FID:a1911:02

Query Match Boot Escal Similarity Matches Ivi Our ry 14 TOANGARSOMESTO BOSHADAVIGORY GZ 2 CLXSGDDCFRSDHIGCS 3KCAFV - CL 27 38.0%; 14.8%; 1...irative 3 Scale 58.5; 108.2; Length 53; Fred. Bo. 0.83; G. Mismatches 8; Indels

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A. Spira, M.E. Serden, E. Hassen, A. Spira, M.E. Ziotkin, E. Berr, J. Brochem, 202, 589–595, 1991

A.Fitte, M.B.A. Specific toxins treatth scream of Paras textile acceleration. Association number: $1953; Mullipsylp4183

A.M.Chemesion, $1953
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A:A-reession: 169713
A:Status: preliminary: tran
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AdMologule type: DNA
AdMostatus: 1 677 - MEC -
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**Congression thannel inhibitor; genome by 2 17.4 21,16-26/Disattide bands, #status predicted
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ArNote: sequence extracted from NCB1 backbone (NCB1P:119526)
TrKegwerds: disultide band, toxin, Jenou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Affither Identification of insecticidal peptides from vesom of the trap-door spider, Arketeronee number: A44007; MUHOCOSCO259
ArAccession: E14007
A: Map position: .
                                                                                                  As Experimental source: strain 972h : cosmid c17Dil
                                                                                                                             Astross references: EMBLALGRITE: PHARSCAALGTAL, SEPARSWOOGT: SPERSPECITE 11.02c
                                                                                                                                                                                                                                                                                                                                   submitted to the EMBL Data Library, September 1998
                                                                                                                                                                                                                                                                                                                                                                     RiBeck, A.; Reinhardt, R.; Wood, V.; Rajandream, M.A.; Barrell, B.G
                                                                                                                                                                                                                                                                                                                                                                                                CiDate: 03-Dec-1999 #sequence_recision 03 Dec 1995 #text_charge 02 Sep 2000
CiAccession: [397]4
                                                                                                                                                                                                                                                                                                                                                                                                                                                             C:Species: Schizosaccharomyces pombe
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A:Residues: 1 27 (FAI)
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Jispocies: Comus textile (clotheof gold come)
Jimile: 19 Mar 1997 #sequence_recision il-Apr-1997 #text_clonde 16 Jul 1999
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As kesidues: 1 37 - SKI+
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elbate: 20 Aug 1999 #Sequence revision 20 Aug 1999 #text_charae 24-May 2001
PANGESSION: 844007
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6.2%; Score 55; DB 2; Length 27;

6.2%; Score 55; DB 2; Length 27;

6.2%; Prod. No. 1.4;

Matches 12; Conservative 2; Mismatches 15; Indels
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mes: insecticidal poptide Aps III
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2: Mismatches 9: Indeb
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                                  Best Local Similarity (6)
Matches (2) Conservative
                                                                                                      Outerly Match
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C:Accession: 072850; A44003
ExAgres, M.D.: Howard, S.C.: Marke, J.: Lapon-Fother, M.: Bussen, P.D.
Virology 202, 586-605, 1994
Austric: The complete CNA sequence of Autographa californics muchous polyhedrosis wir
Ackeforence number: A72850; MULU:94304174
                                                                                                                                                                                                                                                                                   metallothionein 20 HHb - blue mussel
Cispedies: Mylilus edulis (blue mussel)
Cibbre: 23 Jan 1996 #Bequenec_recision 27 Jan 1995 #text change 17 Mur 1996
CiAccession: 847577
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C:Species: Autographa californica nuclear polyhedrosis virus, AcMNIV
A:Note: dSUNA virus
C:Data: 12 Nov 1999 #sepakac_nevisia 12 Nov 1999 #text_change if Nov
                                                                                                                           A: Little: Complete amino acid sequences of tipe dimeric and four measurerie terms of A: Reference number: $39416; MUID: 94062828
A:Accession: $47577
                                                                                                                                                                                                                  RoMarkay, E.A.: Overnell, J.: Bundar, B.: Bayidsen, J.: Bundler, E.E.: Kaeri.
Bur. J. Biochem. 218, 180-194, 1993
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A; Residues: 1-53 <ELD:
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8.EBH idae, R., Li. Y., Miller, L.K.
J. Virol. 6., 6564-6571, 1992
Actified Characterization of a bacabodine agencies odine a small standom
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C:Keywords: chelation; metal binding
                                                                A; Molecule type: protein
A; Residues: 1-71 - MAC.
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ArAccession: A44%es
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A: Residues: 1:5x - AYR.
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                                   C:Superfamily: metallot done is
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hos | 11; Conservative
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37.9%; Pred. No. 2.5;
vative (5) Mismatches (8)
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(5.4%) Secret (4) 108-2) Lebeth 71; (5.4%) Fred, Wo. (.7); (100-18) Mismarches [12] Indels

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A:Reterence number: $39416; MUID:94962828
A:Accession: $39422
A:Molecule type: pottein
A:Resibner: 1-71 HAC:
('Supertamily: metallothionein
':Keywords: chelation: metal binding
     A:Cross-telerences: EMBL:X63187; NID:g32050; FIDH:CAA44809.1, FID:g32051
Fidence1.s:
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A:Accession: $25454
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CrSpecies: Mytilus edulis (blue mussel)
CrDate: 13-Jan-1995 #sequence_revision 13-Jan-1995 #fext_charge 17 Mar 1979
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F:Kirchhoff, C.; Hab
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C:Date: 1:-Jan-1995 #sequence_revision 13-Jan-1995 #text_:Hange 17-Mar-1995
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A)Hatte: 14 Jan-1995 #seephence_revision 14 Jan-1995 #fext_chance
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Matchew 12: Conservative
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:Mackie F A - Overbell
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Reprod. 45, 350-357, 1991
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Fred. No. 3.7:
D Mismatches :
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A. Little. The DNA sequence of Chilo Indescent virus between the denome evoldinates A. Reference number: 714834: MUID:98141693
                                                                         C:Accession: 103171
R:Bahr, U.; Tidoná, C.A.; Datai, G.
Virus Genes 15, 245-245, 1997
                                                                                                                                                                                                                                                                                                                  probable antibiotic polypoptide - Chile iridescent virus C:Species: Chile iridescent virus
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C:Superfamily: alcohol debydrodenase: long chain alcohol debydrodenase lone-bory C:Keywords: acceptated amino end: alcohol metabolism; dimer: metabolism; climer: metabolism; dimer: debydrodenase homelogy <LADH: F:124-263/Texabolis. None chain alcohol debydrodenase homelogy <LADH: F:154-263/Texabolis. None chain alcohol debydrodenase homelogy <LADH: F:154-263/Texabolism; dimer: dimer: debydrodenase homelogy <LADH: F:154-263/Texabolism; dimer: dimer: debydrodenase homelogy <LADH: #S:154-154/Texabolism; dimer: dimer: debydrodenase homelogy <LADH: #S:154-154/Texabolism; debydrodena
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J. Biol. Chem. 27c, towar leaff, 1995
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NrAlternate names: class IV alcohol debydrogenase ma chain; class IV accord debytrog
NrContains: retinol debydrogenase (BC 1.1.1.106)
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A: Molecule type: m.KNA
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                                                                                                                                Matches
                                                                                                                                                                              Best Local Similarity
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6 GDLCERSDHIEC -- CSGKCAFVC 26
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                                                                                                                          Conservative
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38.5%; Pred. No. 8.6;
valies 5; Mismarches 8; Indels
                                                                                                                                                                                    47.8%;
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                                                                                                                          1: Mismatches
                                                                                                                                                                                    Score 52.5;
Pred. No. 19;
                                                                                                                                                                                                                                        DB 1; Length 874;
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keHillyard, D.R.; Oliverd, B.M.; Woodward, S.; Corpuz, G.P.; Gray, W.R.; Ramilo, G.A.; Fiachemustry 28, 484-461, 1989
A; Filter A mediusciveness Cenus texin; censerved frameworks in vacctoxins.
A; Reference number: A80103; MUID:R9207553
A; Actession: A40103
A; Actession: A40104
A; Actession: Yelly 18, 4811.
A; Residence: 52-78 - 4811.
B; Filiariber, M.; Gordon, b.; Basson, A.; Spira, M.E.; Zlotkin, E.
Filiariber, M.; Gordon, b.; Basson, A.; Spira, M.E.; Zlotkin, E.
Filiariber, M.; Gordon, b.; Basson, A.; Spira, M.E.; Zlotkin, E.
A; Actes and namer, S1953, MUID:92104189
** Accession: A44051; $23218
Winology (b), 452 467, 1992
A Little Characterization of the murrhe systemetricalist acto
A Reference number: A44051; Mulligacossiza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cisuperfamily: omega-conotoxin
CKeywords: neurotoxin; sedium channel inhibitor; venem
El 22/Domain; sidual sequence #status predicted <810.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E:23 5]/Domain: propeptide #status predicted «PA»:
E:52 7b/Froduct, delta capatowin TaVIA #status experimental «MAI»
E:53 68,60-72,62 77/Diaultile banda: #status predicted
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A:sesidues: 52 78 <PAI -
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A:Reference number: $12519; MUID:90214687
A:Accession: $12519
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Admosidues: 1 54 BAH
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FisSupertainally: sillucin
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                                                                                                                                                                          "Appeties: morine cytomegaloxirus, marine herpeszirus !
"Tore: Al Dec 1994 #sequence revision Al Dec 1995 #text_change leggi-top9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A:Moleculer type: mBNA
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72.7%;
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42, 38; Pred, No. 13;
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Prod. No. 7.2;
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antimicrobial populde i precursor canden four efebrek (Hadment)
C.Species, Mirabilis jaiopa (errden four efebrek)
C.Satol 28-C.1 1995 #8-9-described four Harlow Port Mooki, change of two 2000
C.Accession: $57815; #43-16
R.Gorboni, $57815; #43-16
R.Gorboni, $57815; #43-16
R.Gorboni, M.F.C.: Experiment, K.: Duncan, K.E.: Pshort, k.W.: lerras, F.F.C.: Brocka Plant Mol. Boi. 28, 718-721, 1895
A.Title, Cloning and characterization of two cDWA clones encoding seed specific antim A.Reteronice number: $57815; MOLDERS 87-244
A.Accession: $57815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A.Helecule type: DNA
A.Residuos: 1-1191-MES-
A.Cross references, SELK57021, MID:q60542 PHA:CAA47414.1: PHD:q60545
A.Experimetal camper AZCC VE 194
C.Supertamily: horposyinus DNA binding protein
C.Keywords: DNA binding zine tilder
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ArBesidaes, 25 61 stAM o
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A:Accession: B42416
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RECAMBUR, B.F. De Belle, M.F.: Ferlas, E.F.: Proest, F.: Vin Farmer to Fees. S.B.:
J. Biol. (Rem. 257, 2228–2234, 1992
A.Tittle: Isolation and characterization of a negel class of plant antimorphobal popti
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                                                                                                                                                                                      Query Match
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                                                                                                                       y Match 32.6%; Soure 49.5; I
Local Similarity 41.7%; Prod. Mo. 12;
bos 10; Comservative 5; Mismarches
26 CEGNECH NEWVGPPYCCSGFC 47
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34.4%; Prod. No.
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Search completed: September 19, 2002, 09:20:19 Job time:  $^{12}$  Sec.

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SHAVWMIS

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Ē	propropathy; surpai tunnel syndrome; cardi secular disorder;
XΣ	condestive heart tallures cancers immunosoppressions epilepsy:
X X X X	asthma; ischaemia; stroke; prin.
× 5	Coms striatus.
× T × Z	W0200147812 A2.
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H.	26 JUN-12600; 12600HS-0114264;
둦	20 JBL 200 G 20 wBS - 0219440 C
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× ** × >	(STARIE) STABLISHER ENC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15,136.7
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                                                                                                                                                                              nomopathy: carpal tunnel syndrome; cardiovascular disorder;
concestive heart failure; cancer; immunosuppression; efilepsy;
actuar; nechronia; stroke; pain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disorder is pain i.e. migraine, acute pain, persistent pain, neuropathic pain, nociceptive pain. The disorder is inflammation or a cardiovascular disorder. A constoxic peptide of is useful to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                betalliam toxin poisoning, Buntington's, compression, entrapment
neuropathics i.e. ulmar marke palsy, and carpal tunnel syndrome,
cardiocascolar disorders, i.e. cardiocarrhythmias and compestive heart
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neuromyelitis, disseminated encephatomyelitis, adrenoleukodystropby,
acute transferse myelitis, professive multipeal bak encephatopathy
Waller 1494 12-A2.
                                                                                                                                                                                                                                                                                                                                   demyelinating disease; multiple sclerosis; Huntindom's disease;
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drowniuss, saffocation, perinatal addyxia or hypodiycaemic sent
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    superfamily conotexin propeptide, Striat21.

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Best Local Similarity
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cone snail or superfamily conotoxin propeptide, belta Striatus los
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      neuromuseular blocking drugs. The neurological disorder is a seigned
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20-JOL-2000; 200018-0219440;
27-001-2000; 200018-0243412.
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96.6%; Fred. No. 2.50-13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              pretendary one associated with epilepsy. The neurological disorder is a neuroloxic injury associated with hypoxia, anoxia or ischamia. The neuroloxic injury is associated with stroke, cerebourascular recibent,
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27-FT-2000; 2000US-0243412.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-DEC-260c;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Comis striatus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 including demyelinating diseases i.e. multiple sclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               liceta EM.
Trwe ipsadic tradhige sakes teel
                                          LEWCIPSOBLOFESDHIGGOSGKCAFVCL 29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jones RM;
                                                                                       Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000W0-053543)
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                                                                                                            96. 6.8:
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                                                                                     0; Mismatches
                                                                                                          Score 164; DB 22; Length 24; Prod. No. 7.26-13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>:</u><
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        immunosuppression; epitepsy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hillyard Lk.
                                                                                         Statul
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alleviate pain in a mammal in pain or about to be subjected to a pain causing event, and to treat disorders associated with radical dispularization of excitable membrance by activating a KAR channel, to
                                                                                                                                                                                                                                                                     preferably one associated with epitepsy. The neurological disorder is a neurologic injury associated with byewia, amodia or ischaemia. The neurologic injury is associated with strucke, cerebookse (ar asolder), brain or spinal cord trauma, myocardial infarct, physical trauma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cardiovascular disorders, i.e. cardiac arrhythmias and concentive heart
failure, reactive albusis, hyperalycaemia, immunesoppression, escaine
addiction, cancer, compilive dysfunction, nearotransmitter disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sub acute severesing panecepharomyelitis (SSPE), metachromatic leukodystrophy, betizaeus Merzbacher disease, spinol cord injury, betulinum texin poisoning, Buntington's, compression, entrapment neuropathies i.e. ulmar nerve palsy, and carpal tunnel syndromes.
                                                                                                                                                       disorder is pain i.e. midraine, acute pain, persistent pain, neuropathic pain, rock-eptive pain. The disorder is inflammation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The preparation is a case small o supertaintly constaint properties. The peptides are useful for requiating the flow of sodium throads sodium channels in an individual and the treatment or prevention of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sclenes is
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N PSDB; AAS11013.
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                                                                                                                  cardiovascular disorder. A conotoxin peptide of is useful b
                                                                                                                                                                                                                                                                                                                                                                                                                                (i.e. Baton Lambert syndrome) and reversal of curare and other neuromascular blocking drugs. The neurological disorder is a s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   acule transverse myeridis, progressive muitifocal leukoencephalopathy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disorders associated with voltage gated ion channel disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15; Rugo 14; 277pp: English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New o-superfamily polypophides useful for treating voltage dated in
channel disorders, including demyelinating diseases has multiple
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26-JUN-2900;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ALTERNATION BMC.
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                                                                                                                                                                                                                                        sufficeation, perinatal asphyxia or hypoglycaemic exects. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Joiles RM:
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           normopathies i.e. ulmar herve palsy, and carpal tunnel syndrome, cardiocascular disorders, i.e. cardiac arrhythmias and compestive heart tarlure, reactive allosis, hyperalycaemia, immunosuppression, cocaine addiction, cancer, countitive dystanction, countransmitter disorders
                                                                                                         nouromyelitis) disseminated encephalomyelilis, adrenoleokodystrophy, a but of Lausvorse myelitis, progressive guirticed levelocaccyphilopalby, sab acute selectesing puncephalomyelitis (SSPE), metachromatic leokodystrophy, belizaeus Merzbacher disease, spinal cord injury,
                                                                                                                                                                                                       the sequence is a case small o supertunity countexts properties. the populates are useful for resulating the flow of sodium through sodium channels in an individual and the treatment or preportion of disorders associated with voltage gasted ion channel disorders,
                                                                                                                                                                                                                                                                                                                                                                                                             WITT: 2001 418352,
N PSDB: AAS11005
                                                                                                                                                                                                                                                                                                 Claim 15: Page 89: 277pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cone smail: O-supertamily conotoxin: sodium channel: demyelinating disease: multiple sclerosis: Huntingdom's disease:
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(1.e. Mater Lambert Syndrams) and reversal of ourare and other
                                                                                        betalinum toxin poisoning. Buntington's, compression, entrapment
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                                                                                                                                                                                                                                                                                                                                                        channel disorders, including demyelinating discuses i.e. multiple
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neuropathy; carpal tunnel syndrome; cardiovascular disorder; concestive heart tailure; cancer; immunosuppression; epilepsy;
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27 - oct -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           performs of a blocking draws. The neurological disorder is a seignre, preterably one associated with opilepsy. The neurological disorder is a neurologic injury associated with byposin, anoxio or ischaemic. He neurologic injury is associated with stroke, receptorascular receipt,
N.PSDB: AAS11008.
                                                                                                                                                                                                                                                                                                                                                                                                                  neuropathy; carpal tunnel syndrome; cardiovascular disorder; conqestive heart tallure; cancer; immenosuppression; epitepsy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                causing event, and to troat disorders associated with radical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         brain or spinal cord trauma, myceardial islanct, physical trauma.
                                                      Layer
                                                                      elizora BH,
                                                                                                         (COGN+) COGNETIX INC
                                                                                                                             (UTAH ) UNIV DIAH RES FOUND
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                                                                                                                                                                                                                                                          28 - DEC 2000; 2000W+ US+54+1
                                                                                                                                                                                                                                                                                             12-JUL-2001.
                                                                                                                                                                                                                                                                                                                                W0200149312-Az
                                                                                                                                                                                                                                                                                                                                                                     Conus circumcisus
                                                                                                                                                                                                                                                                                                                                                                                                        asthma; ischaemia; stroke; pain
                                                                                                                                                                                                                                                                                                                                                                                                                                                           demyelinating disease; medtiple seletesis; Buntinadon's disease:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Come smail: e-supertamil; comotoxim; sodium channel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-0"T-2001 (tirs: entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAU06-041;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAUU6041 standard; Peptide; 31 AA
                                                                                                                                                                                                                      30 - DEC
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-2000; 200008-0219440.
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                                                      Junes RM;
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86.2%;
                                                                        Wat Kind M.
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Fred. No. 1.2e-10;
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sodium channels in an individual and the treatment

The sequence is a cone snail a superfamily conotoxin properties. The peptides are useful for regulating the flow of sodium through

Claim 15; Page 90; 277pp; English

selerosis

Channel disorders, including demy-limating

supertually polypeptides useful for treating voltage dated ion

diseases

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##393833.
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Matches 25; Consor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            discislers associated with voltage dated ion channel disorders, beneated denyelipating diseases i.e. multiple selve asis, quite neutranyelitis, disseminated acceptationselltis, about acceptating acute transverse myelitis, progressive multificeal leukeeneephalogating acute transverse myelitis, progressive multificeal leukeeneephalogating.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    addiction, cancer, cours as against associated of curare and other (i.e. Eaton-Lambert Syndrome) and reversal of curare and other becommissional blocking drugs. The memological disorder is a seigure matter associated cure with prilegary. The courselegary disorder is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nero-pathles i.e. that here palsy, and carpel timed syndrome, cardiovascular disorders, i.e. cardiac arrhythmias do concestive heart tal arc, reactive albasis, hyperdynamia, immenosuppression, ceasing addiction, cancer, conditive dystunction, neurotransmitter disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W 200149412 A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nearogathy: earpal tunnel syndrome; cardiovascular disorder; concestive heart failure; cancer; immunosuppression; epicepsy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AALUS970 Stundard: Poptido: 27 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ioukodystrophy. Polizaous:Merzbacher diseaso, spinal card injury.
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                            TH INTEL
                                                         olivera BM,
                                                                                                                              (TIAH ) COMPANY NOT A CONTRACT (TACK)
                                                                                                                                                                                                                           40 180*11993; 9908*0174754.
26*010N 2000; 2000*08*0214263.
26*010L*2000; 200008 021*4440.
27*0*1*2000; 200008 024*412.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Communications stricted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  asthma: ischaemia; stroke; pain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    demyelinating disease; multiple sclerosis; Huntingdon's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Talat Shail;
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                                Jones KM;
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                                                                Cartier GE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        resupertually exectoxin; sodium changel;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      84.7%;
86.2%;
                                                                Witking M.
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                                                             HETT; and DM.
                                                                Mediatest
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Best Local Similarity
Matches 25: Censer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protectably one associated with epilepsy. The neurological disorder is a servare, protectably one associated with epilepsy. The neurological disorder is a convention in jury is associated with bypositia, and an isobagonia. The brain or spinal cord trauma, myocardial infarct, physical trauma, brain or spinal cord trauma, myocardial infarct, physical trauma, drownings, surfor also perhadal asphysia or hypothypachic events. The disorder is pain, i.e. migraine, acute pain, persistent pain, necessarily acute pain, persistent pain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               alleviate pain in a mammal in pain or about to be subjected to a pain causing event, and to treat disorders associated with radical depolarisation of excitable membranes by activating a KAIT changel, the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 railine, reactive allosis, hyperglycaemia, immunosuppression, occain addiction, cancer, committee dysfunction, neurotransmitter disorders (i.e. Eafon Laubert syndome) and reversal of curare and other commission of blooding displays the carried disorder is a relative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              betalinem taxin prisoning. Bunlindton's, compression, entrapment neuropathies i.e. ulhar nerve palsy, and carpal tunnel syndrome, cardiovascular disopdors, i.e. cardiac arrhythmias and congestive heart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sub acute selectosing panecephalomyelitis (SSEE), metachesmatic
lenkedystroph, Plinica Merckacher disease, spinal cord injury,
betalinem toxin prisoning. Buslineton's, compression, entrapment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          including demyelinating diseases i.e. multiple sclerosis, grie-
nearomyelitic, disseminated encephalomyelitic, afrom-leukodystegts,
wente transverse myelitis, progressive multifocal leukoencephalopathy.
                                                                                                                                                                                                                                                                                demyclimating disease; multiple sclerosis; Huntingdom's disease;
neuropathy; carpal tunnel syndrome; cardiovascular disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAU05968 standard: Peptide:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the sequence is a cone small \sigma superfamily constoxin peptides the peptides are useful for regulating the flow of sodium the
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channel disorders, including demyorinating diseases i.e. multiple
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28 DDC _000; _000\WO US35441.
                                                                                                             ₩0200149312 A2
                                                                                                                                                                      Comus striatus.
                                                                                                                                                                                                                             asthma; ischaemia;
                                                                                                                                                                                                                                                     conquestive heart tailure; cancer; immonosappression; epicopsy;
                                                                                                                                                                                                                                                                                                                                          Come smail:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     67 NAMES AND ADDITIONAL PROPERTY IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          include cardiac, ortifal and cerebral ischaemia and asthma
                                                                                                                                                                                                                                                                                                                                                                                                   o-supertamily constants, Striatzl.
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                                                                                                                                                                                                                                                                                                                                          constaxin; sodium channel
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F10534
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lest Local Similarity 89.7%; Prod. No. 1.96 lb;
litetos 20; Conservative G. Mismatches 3; Dadois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               drownings, suffocation, perinatal asphyvia of hypothyvia wis courts, the disorder is pain i.e. midratice, acute pain, persistent pain, pain incorporation point and incorporation point point. The disorder is inflammed for or a cardiovascular disorder. A constoxin populate of is useful to allegate pain in a manusal in pain of about to be subjected to a pain.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      consing event, and to treat disorders associated with radical depolarisation of excitable membranes by accidating a KALE changel, the disorders include cardiac, ocular and cerebral ischaemia and asthma.
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                                                              Matches
                                                                                   Query Match 83.1%;
Best Local Similarity 82.8%;
                                                                                                                                                                                                                                                                                                                                                                      disorder is pain i.e. migraine, gente pain, persistent pain, neuropathic pain, nociceptive pain. The disorder is inflammation or a cardiovascular disorder. A constoxin populae of is useful to
                                                                                                                                                                                                                                                                                  alleviate pain in a mamma, in pain or about to be subjected to a pain causing event, and to treat disorders associated with radical depotational real radical executance meginnance by activating a sAIP change. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  pretentily one associated with epiness. The neutroboical diseases is neutrotoxic injury associated with hypoxia, anoxia or isobachia. The neutrotoxic injury is associated with stroke, conductorascular accident, brain or spinal conditional importabilities in the physical injury is associated with stroke, conductorascular accident, brain or spinal conditional importabilities interest, physical injury.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neuropathies i.e. ulnar nerve palsy, and carpat tunnet syndrome, cardio-cardio-cascular disorders, i.e. cardia- arrhythmias and consisting beart tailure, reactive dissis, hyperellycomia, immunosuppression, cosaino-
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neurological art blocking divers. The neurological disorder is a selected
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Abste transpise myelitis, popiesely, melliteral boskomorphalopathy.
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channel disorders, including temperinating diseases locumently be
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                                                              Conservative
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(i.e. Eatou-Lambert studrome) and roversal of curate and other neuromiseular blocking drags. The neurological disorder is a science preferably one associated with bylogs; the correlegion disorder is a neurotoxic injury associated with bypoxia, anoxia or is backed. The neurotoxic injury associated with bylogsia, anoxia or is backed. The neurotoxic injury is associated with broke correspondent accident, but not as proved that interest physical trauma, than or spinal cord train as myocardial interest physical trauma.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              including demyelinating diseases i.e. multiple sclerosis, option neuromyelitis, disseminated encephalomyelitis, adrenoleukowystrophy, actto transverse myoritis, progressive multifocal leakocon ephalopathy.
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25 - JUL 2000; 2606US - 0219440
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                                                         alleviate pain in a mammal in pain or about to be subjected to a pain caossial event, and to treat disorders associated with radical deposatioation of excitatio membranes by activation a KAH chancel.
                                                                                                                  disorder is pain i.e. migraine, acute pain, persistent part, neuropathic pain, neciceptive pain. The disorder is inflammation or a cardiocuscular disorder. A constoxin peptide of is useful to
                                                                                                                                                                                                                                                                                                                                                                                                                   between toxin poisoning, Burthaton's, compression, entrapment
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Section 1
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                                                  the sequence is a cone small a superfamily conclove peptide. The postides are useful for could ind the flow of sedica through sedium channels in an individual and the treatment or presention of disorders associated with sociacy gitted for channel disorders, including demyelinating diseases i.e. multiple selectors, optic neuromyelitis, disseminated encephalomyelitis, adrenotous dystrophy.
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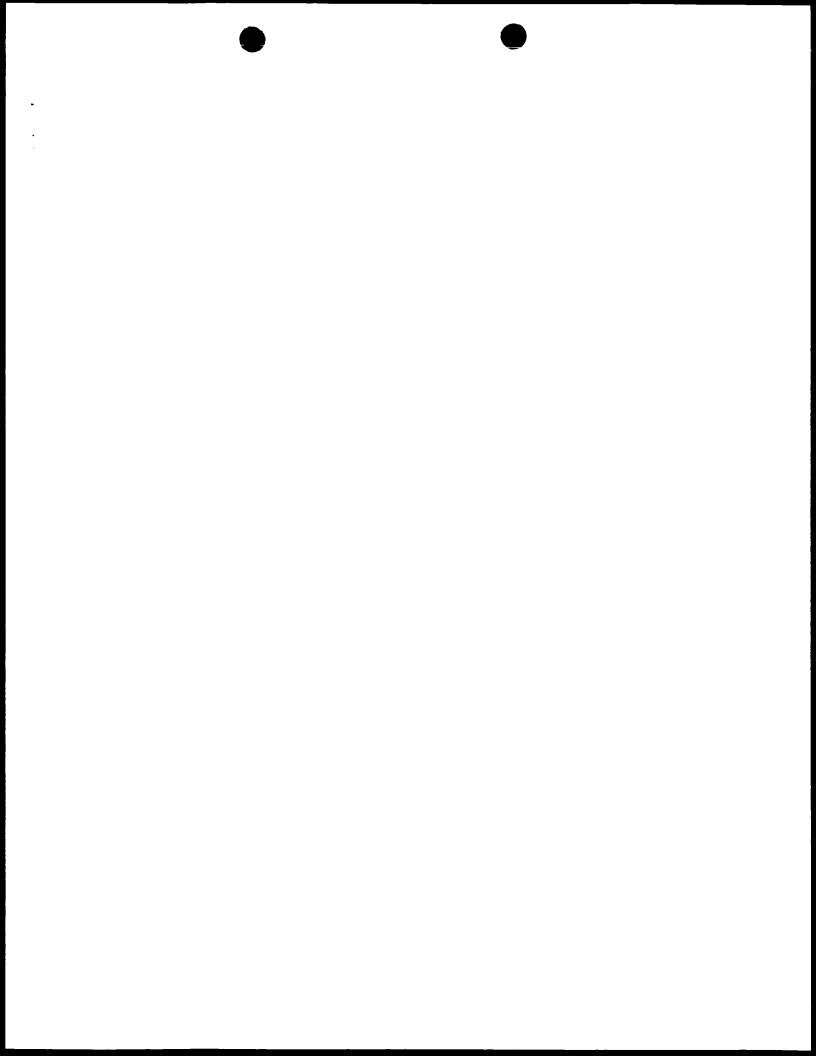
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illarity 92.3%: Pred. No. 1.5e 05;
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New or superiamily polypoptibles useful for treating voltage dated ion

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Pred. No. 4.7e-09;
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RESULT 15
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                                                        domyclinating disease; multiple seletosis; Huntingdom's disease; neuropathy; carpal tunnel syndrome; cardiovascular disorder; cameestige heart failure, cancer; immanosuppression; epilepsy;
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(COGN-) COGNETIX INC.
asthma; ischaemia; stroke; pain.
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                                                                                                                                                                                                                       Chery Match 75.1%; Score 1.6, 18-2, best lowel Similarity 84.6%; Pred. No. 1e ox; Matches 22; Conservative 1: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                   crashnal event, and to treat disorders associated with radical depolarisation of excitable membranes by activating a KALP channel, the disorders include cardiac, ocular and cerebral ischaemia and asthmu.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disorder is pain i.e. migraine, acute pain, persistent pain, neuropathic pain, nociceptive pain. The disorder is inflammation or a cardiovascular disorder. A constoxin peptide of is useful to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        destroloxic injury is associated with stroke, eerebrovascular arcident, bearn or spinal cord trauma, myocardial intarct, physical trauma, drownings, suffocation, perioatal asphyxia or hypodlycaemic events. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nouropathies i.e. ulnar nerve palsy, and carpal tunnel syndrome, carchocascular disorders, i.e. cardiac arrhythmias and concestive heart tailure, reactive alloss, hyperdynamica, immunosuppression, cocatine addiction, cancer, countries dystunction, neurotransmitter disorders (i.e. Eaton Lambert syndrome) and reversal of curaci and other recommendate blocks of the syndrome) and reversal of curaci and other
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27 (61 2000): 2000US-0219440;
27 (61 2000): 2000US-0243412;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           allegiate pain in a mammal in pain or about to be subjected to a pain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neurotoxic injury associated with hypexia, anexia or ischaemia. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neuromuscular blocking drugs. The neurological disorder is a seizure, pre-terably one associated with epilepsy. The neurological disorder is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            leak dystrophy. Pelizaeus Merzbacher disease, spinal cord injury, bedeilinum toxin poisoning, Huntinaton's, compression, entrapment
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### SUMMARIES

No.	Source	Such S Match Length	Length DB	T	<b>=</b>	bescription
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APPLICATION NUMBER: AU PLOTZE
ETITING DATE: 31-JAN 1992
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: Patent No. 5241011
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Hest Local Similarity (2.2%, Fred. No. 0.054)
Matches 12; Chiserualive () Mismatches
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FRIEDENTIEL "TELL ROMBER: 33
TELLETOMMUNICALIEN INFORMATION:
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ATTORNICY/ACTER: TRESKMATTER:
NAME: Western, M. Wayne
                                                                                                                                                                     William TABLE bobilde
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LENGIH: 78 amino acids
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CURRENT APPLICATION DATA:
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AllakESSEE: Thorpe, No. 52 th 11th a Western STREET: 90.5 South for East, Suite 200
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TITLE OF INVENTION: for Small Disallide Fich Deptides
WORKER OF CHARGER: 25
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COMPUTER: Pumpag 11E/286
PREMATING SYSTEM: 1288-4.01
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2 Sequence 13. Application US/SMC24123

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Solphorous Application organizate Patent New 5885569
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Most inequal Similarity 46.46: Pred. No. 9.29:
Matches 19 Conservative 2: Mismatches 11: Locas
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97.3% Score 66: DB 1: Length 78;
Hest Local Similarity 46.4%; Pred: No. 0.29;
Matches 13: Conservative 2: Mismarches 11: hidela
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HELEPAX: 202-952-8500
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APPLICANT: Crilley, Michaelle M.
APPLICANT: Crilley, Michaelle M.
APPLICANT: Cliver, Pallimor, M.
LILLE F INVENTION: Constonit Peptides
HOMHER # SEGUENCE TO
CORRESTEE: Venable, Bartjer Howard & Civileti
SIREET: 1201 New York Avenue N.W.
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APPLICATION MUMBER: US 08
ETILING DATE: 07-9GI-1994
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219 MADLER FERM:
MEDLIM TYPE: Floppy disk
COMPUTER: Floppy disk
COMPUTER: FLOPPY disk
COMPUTER: POTPOS/METERS
SOFIMARE: Patentin Rolease #1.0, Version #1.40
CURKENT APPLICATION DATA.
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APPLICATION NUMBER: US 08
FILING DATE: 17-APR-1995
ALL SHEEV/ACENT IMPORMATION:
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REDISIRATION NUMBER: 28,957
RESERVENCE/DOORTS NUMBER: 24,260-107674-5
TELEN-BHOUNDALION INFORMATION:
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RESULT 6
08:08 716:408-16
. SC JOENS 15, Application 08/09/15:09
. School No. 0885/09
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Host Local Similarity 46.4%; Pred. No. 6.29;
Matches 10, Conservative 2, Mismatches
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CHRENT APPLICATION DATA:
APPLICATION TO TEMBLE: BC,002/716,408
FILLIN DATE: 24 SEP-1996
FILLIN DATE: 42 SEP-1996
FILLIN DATE: 42 SEP-1996
FILLIN DATE: 42 SEP-1996
FILLIN DATE: 27 MAR 1895
FILLIN DATE: 47 MAR 1895
FROM APPLICATION HARDER: GB 9405951,6
FILLIN DATE: 25 MAR-1994
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APPLICATION HERBRATION:
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INFORMATION FOR SEQ ID NO: 2:
SELTEN L. HARACHER CITYS:
LENGTH: 78 autipo acids
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TITLE OF INVENTION: Biological insect Control Agent
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION. BIOLOGICAL INSect Control Agent
HUMBER OF SECURIOSES: 18
CORRESPONDENCE ADDRESS:
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EMITON NUMBER: 29,712
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24 - SEP - 1996.
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PERMIT 7

RESULT 1

RECTURS 0.0262-14

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No. 0.29; Matches II: Indels Matches II: Indels
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FELEDOMMORIO, TON THEOREMICH.
FELEDOMS: 202-962-4848
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APPLICANT: MATSH, MATER
APPLICANT: CTAC, LOADAGE J.
APPLICANT: Hillyard, David R.
LULE OF INVENTION: CONOTOXID Peptides
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FIGUNE DATE: [J/-MAK-1996]
FIGUR APPENCATION DATA:
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                                                                                                                                                 US-07 689-6948-6
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; Patent No. 5231011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Coming Match 47.49; Shorth 66; 1986
Host Local Similarity 46.49; Prod. No. 0.29;
Matching 13, Yiliger Ping District
                                           Matches 12; Conservative
                                                            Overy Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:

RELEVANCE (801) 566-6623

INFORMACION FOR SEC ID NO. 6:

SECURIOR FOR SEC ID NO. 6:

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APPLICANT: Baidomero M. Oliveta
TIPLE of ENVENTION: Sectropated Folding Determinants
TIPLE of INVENTION: for Small Disultibe-Rich Peptides
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FILING DATE: na
APPENEY/AGENT (HESEMATION:
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                                                                                                                                                                                                                                                  MOLECULE TYPE: pe dide
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CURRENT APPLICATION DATA:
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Forecast: Dinear
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REGISTRATION NUMBER: 21
REFERENCE/OWNERS NUMBER
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                                                                                                                                                            NAME, FOR FOR FOR A CHAIN DESCRIPTION METHOD: Direct peptide sequencing IDENTIFICATION METHOD: Direct peptide sequencing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
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OPERATING SYSTEM: DOS 4.01
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3 WILLSON DIESENBERGERSON VERSON VERSON VON
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Sequence 5, Application US/200692406A
; Patent No. 5763568
                                                                                                                                                                                                                                                                                                County Match (2.8%)
host Local Similarity (47.8%)
Matches II: Conservative
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PETER APPLICATION INTA-
APPLICACI N NUMBER: 72, 8,7

FILLING DATE: 17 JULY 1996
APPLICACION NUMBER: 22,099,7

FILLING SATE: 27 JULY 1994
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MELIUM TYPE: Floppy disk
COMPUTER: TRM port of selection of the sel
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1200 South 47th Street
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Prod. No. 1.3;
G. Mismatches 7; Indees
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ECMIC Char, K. Lind A.

FORTHER MATERIA, WINDER CO. 65

FORTHER MATERIA, CO. 65

FORTHER MATERIA
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Futent No. 5459182
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Best Local Similarity 47.8%;
Matches 11; Conservative
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CLASSIPICATION: 424
PRIOR APPLICATION DATA:
APPLICATION HATA:
FILING THE PROPERTY 1996
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COMPUTER: HM PY COMPALIBLE

OPERATING SYSTEM: PC:-POS/MS-DOS

OPERATED THE OPERATION DATA:

CUKKENI APPLICATION DATA:

CUKKENI APPLICATION DATA:
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ARTIJOANT: BEWIELD MERLON E. H.
ARTIJOANT: VONAKX, EDWARD J
ARTIJOANT: VONAKX, EDWARD J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Modescone LANS: No
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ALL SHEDY/AJOH DECEMBED HE
EDMC DELL MILLING A.
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MEDIUM TYPE: Floppy
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TITLE T INVENTION. Functions (At an or Hadronyche Spiders)
NUMBER OF SIXOHEMORS: 26
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THE DATE: 27 JULY-1994
TOATION NOMBER: 85/98
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1200 South 47th Street
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    Mismatches

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Pred. No. 1.3;
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US-08-682-485A-2

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HAMETERY, VASIART

CHER INFORMATION: Xaa is gamma-carboxyglutamic acid.

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APPLICANT: Furio, Hinco
APPLICANT: Furio, Harbara
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Application 08/00100760A Fatest No. 6407014
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LILLE OF INVENTION. CONFERTIONS
FILE REFERENCE: 50065/002001
FILE REPERENCE: 50065/002001
CORRENT APPLICATION HOMER. 03/00/136/76/A
CORRENT FILING DATE: 1908-08-19
MINHER OF SEQ. 10 NAS: 26
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APPLICANT: Kidby, Alan C
APPLICANT: Reepstort, Per
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TITLE OF INVENTION: COMPRETIDES
FILE REFERENCE: $9065,200,200
CURRER APPLICATION NUMBER: 50,705,000,705A
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APPLICANT: Furle, Barbara
APPLICANT: Stenle, Johan
APPLICANT: Rieb; Alau C.
APPLICANT: Roepstoff, Petc
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NUMBER OF SEQ 1D NOS: 26
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; Patent No.
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Best Local Similarity (6.7)
Matches 9: Couservalize
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TELEFAX: $10-2-0-1112
INFORMATION FOR $10, 10-180; 2:
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AFFORMEY/AGENT INFORMATION:
NAME: Shaw, Molissa A.
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PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
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CUBRENT APPLICATION DAIA:
APPLICATION NUMBER. UD/Ce/662,489A
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APPLLICANT: HOWDEN, MERKIN E.H.
APPLICANT: TYLER MAKARET I
APPLICANT: VONARX, EDWARD J
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ACHSESSIE, Zeneca, Inc.
STREET: 1200 South 47th Street
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FILING DATE: 17 JOLY 1999
ACTLEMATOR COMMENT. 05/25/250/200
FILING DATE: 27-JOLY-1999
CONTRACTOR NUMBER: WC 2/2/15/1999
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Topology: linear
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COMPUTER: IBM PC compatible
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39.1% Fred. No. 6.3;
Cize (5) Mismatches (7) Indeb:
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best local Similarity (9.1%) Frod. No. 6.3;
Matches 9; Conservative 5; Mismatches 7; Indels
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Putern No. 5959182
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ANDSLIVATION MUMBER: W 9971
FILLING DATE: 29 JAN 1997
ANDSLIVATION NUMBER: AD 01.07
ANDSLIVATION NUMBER: AD 01.07
ANDSLIVATION NUMBER: AD 01.07
ALLONNED/ANDRI HINGMAN 1981:
ANDRES STATEMENT OF T
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REPERFECTOR NUMBER: 10, 03
IELECOMMUNICATION INFORMATION:
IFLEFONE: $10-241-1112
INFORMATION FOR STYLIN NO. 03
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**EMBER OF SEQUENCES: 28
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AMBUTER: IBM PC compatible
APERATING SYSTEM: PC-1/05/MS-10-8
SOFTWARE: Patentin Polyago #1 0, Vorsion #1
CUEPENT APPLICATION DATA:
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SikEbl: 1200 South 47th Street
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ROISHAND AN EXHIBIT MATHER
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TOTAL SHALL. 415/154 258H
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APPLICANT: Bojsen, Kirsten

ARLICANT: MICHAELS, ELIGICE M.

APPLICANT: MICHAELSen, Join D.

APPLICANT: MICHAELSen, Join D.

APPLICANT: MICHAELSEN, MICHAELSEN, MICHAELSEN, PROGRESS, 13
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TREEPFAX: 415/859-1
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computex: FRM PC compatible
deEANING STYSEM. FOLECA,MS-DOS
SOFTWARE: Patestin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DAIA:
AFFLICATION HOMBEF. 32/39/547,238
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CITY: Palo Alto
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Best Local Similarity
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                     of MAY 2000 (TrEMBGrel, 18, Created)
of MAY 2000 (TrEMBGrel, 18, Last sequence update)
of BEY 2011 (TrEMBGrel, 18, Last admotation update)
concerning STAFFOLD VIVII.
Cours rextile (Cloth of gold care).
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Of MAY 2000 (TrEMBLECL 18, Greated)
Ol-MAY 2000 (TrEMBLECL 18, Last sequence update)
Ol-BEC 2001 (TrEMBLECL 19, Last annotation update)
CUNOTOXIN SCAPFOLD VI/VII.
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Neodastropoda: Comoldea: Comidae: Comus.
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bukuryeta: Metarua: Metlanna: Suntropoda: Caemoquastropoda: Moreuastropoda: Comid-gold: Comid-gol
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Pukarjota: Metazoa: Moliusea: Gastropoda: Caenogastropoda
                                                                                                                                                        сиция;
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EMHL. AF9-261; A8070762.1; C. LiterPro: IPR004214; Constoxin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE 76 AA; 8508 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPROU4214; Conotoxin.
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EMBL: AF193269; AAF07980.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE 21105969; PubMed 11158471;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SECUENCE FROM N.A.
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Cantibello S.G., Gilad Y., Avidan M., Hen Asher E., Kevy K.,
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50.0%;
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Hest Local Similarity 48.1%.
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Best Local Similarity 50.0
Matches 19. Causervative
                                                                                                                                        098881;
01-JUN-2001 (TrEMB.rel. 17, Created)
01-JUN-2001 (TrEMB.rel. 17, Last sequence update)
01-DEC-2001 (TrEMB.rel. 19, Last annotation update)
                                                                         Bukaryota: Metazoa - Mollusca: Gastegoda: Gaenodastropoda:
Neodastropoda: Comoldea: Comidae: Cames.
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01-JUN-2001 (FERMATERI, 15, Last Sequence update)
01-JUN-2001 (FERMATERI, 15, Last sequence update)
01-JUN-2001 (FERMATERI, 15, Last Sequence update)
03-375XIN SEWIFFEL VI/VII FREFURGUE.
                                                                                                                          Conus arematus.
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EMML. API9:268: AAR767979-1:
InterFro. IPEG042.4: Canatexin.
Pram: PF02950: Conotoxin: 1.
SECURENCE 76 AA: 8464 MW; 68124AEBFC04ABDF CR054;
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Neoqastropoda; Conoldea; Conolae; Conos.
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  SEQUENCE PERM N.A
                                                 E-Bi_faxib 39451;
                                                                      Neoquastropoda;
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EMBL. APS1506 AAG50527.1
EMBL: APS15038: AAG50466.1:
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Contidelto S.G., Gilad V., Avidan N., Fon Ashov E., Lowy Z.,
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Conditional State offlad Y., Avidan M., Ben Asher E., Levy Z.,
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W: F8124AE8FC04A8DF CKC54;
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1: Mismatches
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ol-Jun 2001 (TrEMBLrel 17, Last Sequence update)
cl-DEC 2001 (TrEMBLrel 19, Last annotation update)
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Eukerpota: Metazoa: Meditasen: dastropoda: Caenogantropoda
Neonastropoda: Conoidea: Conidae; Conge
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Teatierine 8.6., Silad Y., Avidan N., Ben-Asher E., Levy Z.,
Fainzilber M.;
                                 "Mechanisms for Evolvina Hypercariability, The Case of Conapoptides.": Med. E(o), Evol. 18:120-131(2001).
HMHL: AF215032: AAC60440.);
                                                                                                                                    Fainzinber M.;
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01-20N-2001 (FEMBErel, 17, Last sequence update)
01 DEC-2001 (TEMBEREL, 19, Last annotation update)
                                                                                                                                                        MEDIINE 21105969; FabMed 1115#371;
Poptioodio Sidi, Gilad Y., Avidan N., Hen-Asher E., Levy Z.,
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MEDINE 21105969; PutMed 1117#471;
Confection S.G., Gliad V., Avidan N., Ben-Asher E., Lovy X.,
Fainzillor M.;
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      InterPro: IPRob4214; Constoxin.
                                                                                                                                                                                                                               SEQUENCY PROM N.A.
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EMBE; AF215034; AA360462.1;
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Local Similarity 43.3%;
Clare The Court Fronting
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AF215057: AAG60485.1:
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SMARI; SM00209; TSP1; 1.
SMART; SM00216; VWD; 1.
                                                             CONCTOXIN-LIKE PROTEIN
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Plam: PF00094: :wd; 1
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InterPro: [PR00284: [SP].
InterPro: [PR00346; Vwd.
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01-JAN 1999 (TEMBLECT, 06, C
Buzura suppressaria nuclear polyhedrosis virus (BsNPV)
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Ptam: PE01826: TIL: 2.
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46.4%;
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01 NOV 1998 (InfMMELLEL 08, Greated)
01-NOV 1998 (InfMMELLEL 08, Last sequence update)
01-DET-2001 (InfMMELLEL 19, Last annotation update)
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Eukaryota: Meraroa: Chordata: Tamiata: Vertebrata: Entelossioni
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01-DEC-2001 (HEMBERGE, 19, Last annotation pdat
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1: Mismatches
                                                                                                                                                                                                                                                                                                                                                           Score 59.5, I
Pred. No. 1.5;
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Best local Similarity
                                                                                     CHEMORY JOHN (TREMBLIEF, 13, Created)
Of MAY JOHN (TREMBLIEF, 13, Created)
Of MAY JOHN (TREMBLIEF, 14, Last sequence update)
Of 1997 John (TREMBLIEF, 15, Last supposition update)
Fight food Chemologia LAVIE (SEACHERI).
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MENLINE 98374,58) PubMod-9713513;
MENLINE 98374,58) PubMod-9713513;
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ol MAY 1999 (TitMBLIel, 10, Last sequence update)
oll-DET 2001 (TitMBLIel, 19, Last annotation update)
CONOTOXIN-LIKE PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Sequence and analysis of the genume of a bacoloxicus pathoachic for
Lymantria dispar.":
Virology 253:17-34(1999).
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Kurio J., Fearson M.N., Harwood S.H., Funk C.J., Evans J.I.,
Slavicek J.M., Rohrmann G.F.:
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Viruses: dsDNA viruses, no RNA state: Bacutoviridae:
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Virus Res. 55:71-82(1998).
EMBL: AF045936; AAC34372.1;
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  Nessaust ropodar (Conicidear Conicider Conics N Ts. (4.8\times10^{-89}4.25)
                                                     Bukarpita: Metazoa: Mollusea; Gastropoda; Gaenogastropoda
                                                                                Counts Tividus.
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NUM_LaxID=74320;
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hes - 13: Conservative
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                                                                                                                                                                                                                                                                                                                                                           33.1%; Score 98.5; 181.12; Lenath 53; 44.8%; Fred. No. 0.13;
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                                                                                                                                                guery Match
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                                                                                                                                                                                                                              Ptam: PF02950; Conotoxin: 1.
NON_TER 1 :
SEGUENCE 2) AA, 2.45 MK,
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Query Match (2.5%) Score 57.5; DR 5; Longth 71; Bost Local Similarity (44.0%) Prod. No. 0.25; Matches 11; Conserration 1; Pismathics 6; Indole
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Necaustropeda; Concidea; Conidae; Comus.
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"Molecular genetics of evolvated diversification, depituation and rapid evolution of toxin genes of the venomous dustropod Conus."; "root, Natl. Acad. Sci. U.C.A. 96.6820 6823(1999). EMBC, AF08941; AND48456.1: ".
EMBC, AF08941; AND48456.1: ".
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Pram: PF02950; Cobotoxin; 1.
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"Alteration of sodium currents by new poptide toxins from the venom of a molluscivorous comus small.";
EUL. J. Neurosci. 5:56-64(1993).
I FUNCTION. HIBERTS EGGEM CHANNEL TRACTIVATER, ACTS SPECIFICALLY ON MCLUDEC WHITE T. ST. W. SCHITTH CUSSINE TAX TUVALE N. HIBERTS HOUSE THE PRACLY GROWN LINDSTEEN AS SHORD CARLES ASSUMES AN EXAGGRANGE SCHIMAN FOR THE PERFUTDE. A SHORDINATE LORGITE ASSUMES AN EXAGGRANGE SCHIMAN FOR THE PERFUTDE. A SHORDINATE LORGITE ASSUMES AN EXAGGRANGE SCHIMAN FOR THE PERFUTDE. A SHORDINATE LORGITE ASSUMES AN EXAGGRANGE SCHIMAN FOR THE PERFUTDE. A SHORDINATE LORGITER ASSUMES AN EXAGGRANGE SCHIMAN FOR SHURE (OF A TELLY EGGET LORGITER ASSUMES AN EXAGGRANGE SCHIMAN).
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"A mulluscivorous Conus toxin conserved frameworks in constructor, Myochemistry 28,458–51((289))
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Woodward S., Cruz L.J., Olivera E.M., Hillyard D.K.;
"Coustant and hypervariable regions in concrexit propoprides.":
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Neoaustropoda; Conoldea: Jonidae: Junis.
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Wang X. H., Smith K., Fiedolmer J.L., Wilson H., Wood C.J.,
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                                          "Structure-function studies of wathacotoxin, a potent antagonist of insect voltage-mated calcium channels.":
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IS H.S., YU F., Buand P.I., Buand C.F.;

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Submitted (AFR 1999) to the EMBL/PenPank/MAPTIC MEMBERANCY TERM STATE AFFORMATIC MEMBERANCY TERM STATE AFFORMATIC MEMBERANCY TERM STATE SINGUISTIC MEMBERANCY TERM STATE AFFORMATICAL TER
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OTHER
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Plant PF02550; Conotoxin; L.
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Necqustropodu; Concidea: Conidae: Conss.
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as what white coding 0 + 0810000A.
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EEC16AE67EE3F36A CRC64;
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15-JUL-1999 (Ref. 88, Last sequence update)
30-MAY-2000 (Ref. 39, Last annotation update)
Alcohol deligidrodenase viass IV (EC 1.1.1.1) (Retinol dehydrodenase)
(Gastric alcohol dehydrogenase) (ADH-02) (Alcohol dehydrogenase 7).
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Genomics 41:105-109(1997).

FUNCTION. CHILL PUNCTION IN RETURN EXILATION FOR THE SYNTHESIS RETURNIC ACID. A HORMONE IMPORTANT FOR CHILDLAR DIFFERENTIALION.

-1- CATALYTIC ACID/TY An alcohol - NAD(-) an aldehyd- of Kotohol
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MIDLINE 95256259, Faladed 7740026;
Zdombie-Knight M., And H.L. Fondjio M.H., Duester G.;
"Cloning of the mouse class IV alcohol dehydrogenase (refined dehydrogenase) cDNA and tissue specific expression patterns of the murine AbH dene family.";
                                                                                                                                                                                                                                      Pfam, PF00107, adh_zinc; PROSITE; PS00056; ADH_ZI
                                                                                                                                                                                                                                                                                                                                                                                              MGD; MGE:87926; Adha.
InterPro: IPR002328; ADH_zine
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Mammalla, Butherla, Rodentla, Scharomathi: Muridae: Marimae, Mus
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                                                     of insect voltage gated calcium channels.":
Eur. J. Hiochem. 254:448 454(199).
ET PUNCTION: THHISTIS TREET, BUT MET MAMMALIAN, VELIAGESTATES CALCIUM CHANNEL CURRENIS.
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I FUNCTION. INHIBITS INSECT, BUT BUT MAMMALIAN, VOLIME GAIRD CALCIUM CHANNEL CURRENTS.
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Biadropyche versuta (Bine mountains tunnel web spider) (Attax
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Calcium channel inhibitor, Toxin.
                 -1: ILSSUE SPECIFICHY: Produced by the remaining gland {\rm HSSP}_{\mathbb{C}} PS-C207: [AXH.
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0 meda attacoloxin H.D. (smesa ActX H2[e]).
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        AA: 4185 MM: 1445411EA7862AF4E 55774.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Novel omega-conotoxins block dihydropyridine-insensitive high voltade-activated calcium channels in molluscan neurons.";
J. Neurochem, 67,2155-2163(1956).
-i- FUNCTION: OMEGA-CONVECKINS ACT AT PRESYNAPTIC MEHREAHES, THEY AND BLOCK THE CALCIUM CHANNELS. ACT ON HIGH VOLTAGE-ACTIVATED (HVA) CALCIUM CURRENIS IN MOLLUSCAN NEURONS.
SEQUENCE FROM N.A
                                 N'BE [TaxID-6494;
                                              Eubaryota: Motazoa: Motiusoa: Gastropeda: Caomoquetropeda:
Neoquetropoda: Conoidea: Conidae: Comus.
                                                                                                                   16-0-01-2001 (Rel. 40, Greated)
16-0-01-2001 (Rel. 40, Last sequence update)
16-0-01-2001 (Rel. 40, Last secutive organic)
16-0-01-2001 (Rel. 40, Last secutive organic)
18-0-01-2001 (Rel. 40, Last secutive organic)
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Neonastropoda: Comoidea: Comidae: Comus.

    MAY 2000 (Rel. 9) Last separate update)
    17-21 Zudl (Rel. 40) Last annotation update)
    suecal econotoxic bryon

                                                                                                        1 X 1-4
                                                                                   Comus textile (Cloth-of-dold come).
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1- MASS SPECTFOMETRY: MW 3178.2; MW_EBR-0.5; METHOD-Electrospia;
1- SIMILARITY: BELONGS TO THE OMEGA-TYPE CONOTOXIN FAMILY.
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                                                                                                                                                                                              17X+
                                                                                                                                                                                                                                                                                                                                                                          local Similarity
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48.1%;
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Pred. No. 0.29;
7, Hismatches
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Best Local Similarity
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OFSH_CRYLA DFANDARD; PRT; 35_ MA.

PR7365;
15-JUL-1998 (kel. 36, Created)
15-JUL-1998 (kel. 36, Last sequence update)
15-JUL-1998 (kel. 36, Last annotation update)
Blue Sensitive opsin (Blue cone photoreceptor pigment) (EFH-B).
Organian Latipes (Medaka fish).

Eukaryota: Metakasi (Chardara: Graniata: Vertebrata; Eutelegatemi;
Actinopteryqli; Neoptoryqli; Teleostel; Euteleostel; Neoroleostel;
Actinopteryqli; Neoptoryqli; Percomorpha; Atherinomorpha:
This SWESE PROT entry is expyriable. It is produced through a collaboration between the Swiss Institute of Richitormalies and the EMME outstation the Buropean Bioinformatics Institute. There are no testife ions on its use by non-profit institutions as long as its contest is in no way modified and this statement is not removed. Usage by and to commercial
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                                                                                                                                                                                                                                                                                                                                  Hisatomi O., Satoh T., Tokubada F.)
Submitted (MAP 1997) * *1. PMP (O.P.) 10041 databases.
-!- FUNCTION: VISUAL PERMENTS ARE THE LIGHT ARROUGHEN) MOLECULES THAT
                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE-Retina;
                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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The food of the food of the food of the panel graph diffusors.
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SUBCELLHIAR LOCATION: Integral membrane protein.
ILCSUE SHECFECITY: THE COLOR FIGHENES ARE FOUND IN THE CONE
                                                                                                                                      OPSIN SUBFAMILY.
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   POLITION OF IVATED CALCIUM CHARMETS IN MOTIONS IN HORIZON, A REALISTAND HORIZON, THEY I HERNELD AND A CHARTENING ACT AT ENCRYNATTE MERICANES, THEY I AND KACK THE AND TOWN THARRELD ACT ON HITH VALUAGE ACTIVATED AND KEAR LOCALUM CURKENIS IN HOLLDEGAN NEURONS.

1 SHOPELLULAR LOCALUM SECRETOR

2 SHOULARITY HELOURS TO THE OMBOA TYPE CONSIGNING AND FAMILY.

1 SIMILARITY HELOURS TO THE OMBOA TYPE CONSIGNING AND ADDICATE FOR THE CONSIGNING TAMBLY.
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Bukuryota: Metalaas Mellusca: Sastropada: Gaenogastropada:
Nessastropada: Osnoidea: Conidae: Canas.
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MAY 2000 (Red. 89, Last sequence) 2001 (Red. 40, Last annotation in PuVIA.
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FRANCE PROSES, SPERKHESSES
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InterPro: TPR000276; GPCR, Rholpsn
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 luterPro; IPRO01760;
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RETINAL SHEAT HERE (XY STRUCKELIN)
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FROSTIES PSOO(280) MPIL KUNITZ L: 1.

FROSTIES PSOO(282) MPIL KUNITZ Z: 1.

PROSTIES PSOO(282) KAZALI FALSE NEAL
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Priam: PF00050; Kazal: 3.
Priam: PF00014: Kurlit: BF11: F00014; Kurlit: BF11: F000259; FAS: PLASE.
PRIMIS: PF000290; KAZALINHRIE.
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01-MAR-2002 (Rel. 41, Last sequence update)
01-MAR-2002 (Rel. 41, Last annotation update)
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PELL/PERMIC INHIBITION.

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; Fred. No. 0.46
0; Mismatches
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Best Local Similarity 43.5%;
Matches 10: Conservative
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SEQUENCE
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Eur. J. Biochem. 264:488-494(199).

1. FUNDITON: INHEBISI INSECT, BUT NOT MAMMALIAN, VOLTAGE GALED CALCIUM CHANNEL CURRENTS.

1. SUM-ELLIDIAN LOCATION: Secreted.

1. TISSUE SEPCIFICITY: Produced by the venomous gland.

ESSE: 1-56207: LAXH.

ESSE: 1-56207: LAXH.

HSSP: 1-56207: LAXH.

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Fx35-55;
15-35;
15-311:1999 (Rel. 48, Greated)
15-311:1999 (Rel. 38, Last sequence update)
15-311:1999 (Rel. 31, Last annotation update)
unear-arranomoxin Hylb ( weda Actx-Hylb).
Hadronyche versuta (Blue mountains tunnel web spider) (Atrax
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Wana X.-H., Smith k., Fletcher J.I., Wilson H., Wood C.J.,
Merlin E.H., King G.F.;
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Bukanyota: Metazoa: Arthropoda: Chelleorata: Arachnida: Araneae:
Mgatlomorphae: Hexathelidae: Hadronyche.
NGMI_TaxID-6904:
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197 AA; 21248 MW:
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11 22 BY SIMILARITY.
17 46 BY SIMILARITY.
17 46 AV SIMILARITY.
17 46 AV SIMILARITY.
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Virology 229, 381-499, 1997
A:Title: The sequence of the orayla pseudofsunata multinucleocapsid nuclear polyhedro
A:Reference number: 217011; HURES2271400
A:Accession: Titologia; Ericolated from dig2256/71360
A:Statos, Freindrag, Ericolated from dig2256/71360
                                                                                                                                                                                                                                                                                                                                                              C)Species: orgyia pseudotsugata nucicar polyhedrosis virus, opmNPV
C.Date. 16 Jul 1999 #sequence_recision 16 Jul 1999 #text.change 11
C:Accession: T10405
                                                                                      A:Molecule type: DNA
A:Residnes: 1-53 - AHR (
A.Cross references: EMBL:875930, NHD:d294903; PHD:d1911482
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A. Cross telefoles: 1
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A;Statuk j:5000inar
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ACTILLE: Sequence and analysis of the genome of a baculovirus pathodonic tor Lymantri
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Best Local Similarity 44.8%;
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1997

    orașia pseudotsunata nuclear polyhedrosis virus

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Pred. No. 1.5;
DB 2) Longth 53:
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Query Match 33.1%; Score 58.5; Dest Local Similarity 44.8%; Pred. No. 1.5;
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4 CHESTIAL PRESIDENT CONFORMATIVE
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hypothetical protein Rv0471c - Mycobacterium taberculosis (strain H\*7FV)

(Species: Mycobacterium tuborculosis (Date: 17 JR) 1998 #Ecquebo\_Ecclido. 17 JR) 1998 #text\_change 28 Hr) 2000

C;Accession: 070829

R:Cole, S.T.: Brosch, K.: Parkhill, J.: Garnier, I.; Churcher, C.: Harris, D.: Gordon Common, R.: Davies, R.: Declin, K.: Feitweil, I.: Gantles, S.: Hamain, N.: Holroyt, Fajmedream, M.A.: moders, J.: Rotter, S.: Sceper, K.: Skeiton, S.: Spourcs, S. Nature 93, 547-544, 1998

A;Anthors: Squres, K.; Sulston, J.E.; Laylor, K.; Whitehead, S.; Fortell, B.G. A;Fitle: Deciphering the biology of Mycobacterium tabel closes to a the comple es amplication

A; Reterence number: A70500; MUID: 98295987

ArResidues: 1-1/2 / 001. Arresidues: 1-1/2 / 001. A: Molecule type: DNA A:Status: preliminary: Junceio acid sequence not shown: translation is the shown

A;Gene: Rv=471c

OrSuperfamily: Mycobacterium tuberculesis hypothetical protein Prof!!

Omery Match (2.2%) Source 57: 18(2) Togeth 162: Rest toward Similarity (9.1%) Pred. No. 5.1: Conservative Mishatches

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WARITOTEAL Names: Inserticidal peptide Aps III
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RHabr, U.: Iidona, C.A.: Daral, G.
Virus denos 15, 235-245, 1997

Allithe: The DHA sequence of child inidesent virus between the genuac condinates 0.100

Reference number: 214834; Molb:98141693

cossion: 103171
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A:Reference comber: 219777
A:Accession: 124646
                   R:Skinner, W.S.; Dennis, P.A.: Li, J.P.; Quistad, G.B.
Toxison, 6c, 1043-1050, 1992
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A:EXperimental source: clone M0185
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C:Species: Chilo iridescent virus
C:Species: 24-Har 1999 #sequence_revision 24 Mar 1999 #text_change 20 Aug 1999
C:Date: 24-Har 1999 #sequence_revision 24 Mar 1999 #text_change 20 Aug 1999
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44.98; Pred, No. 2.6
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A.Stoos Teletrones, Millimbs, Willias 1500, EIREJAN666 vall, Filliasses 2
REBINION, 66, 656 86571, 1992
A.Tille. Sharacterization of a baculovirus gene encoding a small comoustnlike polype
A.Beterence number: A44003; Milb:9302184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        As fittles. Identification of insecticidal peptides from verom of the Yrag as a splides Asserteines magnet: \Delta 44a07; MHTS: Accessor
                                                                                                                                                                                                                                                                                          REAGINGS, M.D.: Howard, S.U.; Kuzio, J.: Lopez-Ferber, M.: Fossee, R.I.
Virolagy 202. 546-665, 1994
A:Intle: The complete LNA sequence of Autographa californica nactical polyhedrosis vir
A:Reference number, A72856, MCIB.54-80173
                                                                                                                                                                                                                                                                                                                                                                                                          Grsperies: Autographa californica medear polyhedrosis virus, AcMNEV ArNote: dsbNA virus
ArNote: dsbNA virus
Grades Tarks 155 asequence_recision 12 Nov 1999 #teat_change 24 Nov 1999
Gradession, G72856, A44603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C/Superfamily: RING tinger homology - RRN
E/288 356/Domain: RING finact homology - RRN
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ArNote: peopolise extracted from NUBL backbane (NCB:P:119525)
CtKeywords: JIs-3 fide bond: toxin: veron
                                                                                                                                                                         A: Molecule type: DNA
A: Residues: 1-53 < AYR -
                                                                                                                                                                                                                                   A:Status: preliminary
                                                                                                                                                                                                                                                                    A:Accession: C72850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          conotoxin homolog - Autographa californica nuclear polyhedrosis virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PESULT II
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Experimental source: strain 972h-; cosmid c17bl:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A)Cross teterences, BMBLALO31799, 1 HDM.CAA21373.1, GSPDH:SNB0067: SPDH:SPB017511.1.2c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
A; Mesidues: 1-677 < BEC -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Status: proliminary: translated from dig/BMRI/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A: Reterence number: 221872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          B.Beck, A., Beinhardt, K., Wood, V., Kajandream, M.A., Barreil, B.J.
Schmitted to the EMBL Data Library, September 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C:Accession: 139713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C:Hate: 03-bec-1999 #sequence_regision 03-bec-1999 #text change 02-Sep 2000
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C;Species: Schizosaccharomyces pombe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 10
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A: Residues: 1-37 (SK!)
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Rest Local Similarity 43.5
Matches 10; Conservative
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(2.6%)
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43.5%; Pred. No. 3.1;
11.00 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 55: 18 2: Length 677; Fred. No. 25: 6: Indels
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**:Species: Myrthus edulis (blue mussel)
**:Species: 14 Jan 1995 #sequence.revision 14 Jan 1995 #fext_clande 12 Mar 1999
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C:Species: Mytilus edulis (blue mussel)
C:Date: 27 Jan 1995 #sequence_tells/se.
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A:Residines: 1554 -ELD:
A:Cress reteries: GM.L22858, Nib.4518708, PHON.AAA66633.), FID.4559872
Colomosties:
"Esperies: Aptostichus schlingeri
                                     artotexin IV - trap door spider (Aptostichus schlinderi)
M:Alternate names: insecticidal peptide Aps IV
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C:Keywords: chelation; metal binding
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A:Residnes: 1-71 - MAC>
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S47577
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                                                                                                                                                                                                             E.S.
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Accession: $47577
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Little: Complete amino acid sequences of five dimeric and tour monomeric forms of meta-
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48
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           o Pumbaro Roo Daribbean Ioo Bamilka Ciboto Kacali Johobo
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Pred. No. 6.5;
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ArNote: segmence extracted from NFB backbone (NCBIF:17528)
CrKeywords: distified bond: texin: renom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Astitles identification of insecticidal populoes from genom of the trap dear spider. A.Reference number, A41 \mathbb{R}^{n_1} MUID:9.0092 9 A.Accession: C44007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aptotoxin VI - trap-door spider (Aptostichus schlinderi)
N,Alternate hamos, insecticidal paptide Aps VI
C.Species: Aptostichus schlinderi
C.Date: 20-Aug 1999 #sequence_revision 20-Aug 1999 #fext_change 24 May 2001
C.Accession: C44007
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Search completed: September 19,
Job time: 65 sec
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A:Residues: 1-76 cSKI-
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Toxicon 30, 1943-1950, 1932
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A:Note: sequence extracted from MCBF backbook (NCBFP:119527)
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A:Residues: 1:76 :SK1:
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Best Local Similarity (45.5%) Fred. No. 6.8)
Matches (0) Conservative () Mismatches
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Ouery Match
Hest Local Similarity 45.5%: Fred. No. 6.88
Matches 10; Conservative 1; Mishafebes
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